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DEPARTMENT OF PUBLIC WORKS,

REGINA, *March 1, 1905.*

To His Honour,

AMÉDÉE EMMANUEL FORGET,

Lieutenant Governor of the North-West Territories of Canada.

SIR,—

I have the honour to transmit herewith the Annual Report of the Department of Public Works for the year 1904.

I have the honour to be, Sir,

Your obedient servant,

G. H. V. BULYEA,

Commissioner of Public Works.

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DEPARTMENT OF PUBLIC WORKS,

REGINA, *March 1, 1905.*

G. H. V. BULYEA, ESQ., M.L.A.,

Commissioner of Public Works.

SIR,—I have the honour to submit the Annual Report of the Department of Public Works of the North-West Territories for the year 1904.

The increase and extension in the work of the department, referred to in the last annual report, has continued, which will be found from the detailed information in the following pages. This increase was to be expected from the rapid increase of settlement and extension of the areas within which the department has been called upon to perform public works during the season.

The damage to and destruction of bridges and roads in Eastern Assiniboia, owing to floods caused by melting snow in the latter part of April and May, which completely destroyed a very large number of the old structures, necessitated a very considerable expenditure for new bridges of a much more substantial class than heretofore constructed in the locality mentioned, and a generally favourable season for such works permitted of replacing practically all structures destroyed and completing a large number of other new structures necessitated by the extension of settlement and extension of railways, and while it was not possible to comply with all requests or meet all the requirements, it will be noted that a very much larger number of bridges were constructed or reconstructed than in previous years. The system of putting in steel superstructures as far as possible to meet the expenditure has been followed and an effort made to use concrete substructures in preference to piling and timber. The bridges over the Old Man river near Macleod and the Belly river near Lethbridge were both during the year completed on this class of substructures and the construction of bridge over Bow river near Morley was undertaken and well advanced at the end of the year on the same lines. The replacing of piling and timber substructures supporting some of the older steel bridges with concrete should be carried steadily along to avoid too much of this work coming on at one time, and where possible permanent concrete substructures should be placed in all streams to carry the steel superstructures. It has, however, been impossible, owing to the limited season for the performances of such work, limited means and the fact that bridges had to be provided without delay, to put in as much permanent work as we would like to have done, consequently piling has been used and concrete will be a later consideration. Where conditions are favourable concrete or tile pipe should be used for the smaller sized culverts in connection with road construction, its first cost not exceeding very much that of timber in many localities.

A large amount of road improvements was carried on both in large and small local improvement districts, but in the latter particularly an effort was made to concentrate the improvements on leading trails just as far as possible, it being evident that expenditures on such works, outside of what the local improvement districts are able to perform, should, as

far as possible, be made upon leading trails or roads, with a view of benefiting the largest number of settlers for the expenditure. Generally dry and favourable weather for road work in the latter part of the season, while improving the general condition of roads, also permitted of undertaking improvements where not possible to advantageously do so during the wet seasons, had funds been available for the purpose.

Agreements with the railway companies *re* fireguarding along their lines, entered into in 1902 and carried on for two seasons, were terminated at the end of 1903, the companies continuing the work of maintaining fireguards during 1904. Fireguards outside of these along railway lines were maintained as in previous seasons, and while these guards have not in all cases turned or stopped the fires, the protection given seems to amply warrant the expenditure.

Dry weather through the latter part of the season has again brought up strongly the question of shortage of water in several localities, and the six drilling machines owned by the department were operated steadily up to the end of the year with varied success, and while the percentage of wells in which from fair to good supplies of water were obtained is encouraging, admittedly, the number and class of machines owned by the department is entirely inadequate to meet the requirements, and in localities where supply of water can be obtained at a reasonable depth, the settlers will, undoubtedly, have to make more effort to supply themselves, as we have on hand at present applications that would keep all the machines fully employed during 1905. There are, however, certain areas where supply has rarely, if ever, been found by the tests made down to 400 or 500 feet, and I would be inclined to advise the purchase of a 2500 to 3000 foot machine for the purpose of making tests in such localities, such tests only to be undertaken in organised districts where the local authorities are willing to contribute largely to the expense outside of the first cost of the machine.

The areas organised under the new Local Improvement Ordinance up to the end of the year is very gratifying, and generally speaking the councils have shown a marked interest in looking after their own local affairs, which has resulted in a lot of good work being done, besides placing the department in a position to deal with the council as a body representing the district in preference to the confusion that generally arises when aiming to deal with public improvements on private requests and recommendations. Petitions for organisation now on hand point to a largely increased organisation of local improvement districts during 1905, and it is confidently hoped that this organisation will be the first step in a system of fuller local control of the many small questions, which it is practically impossible to deal satisfactorily with from one central point in view of the large area over which settlement is spreading.

The total expenditure incurred by the department during the year on public works and paid out of general revenue amounted to \$611,417.77, some \$239,197.77 more than was expended from this source in 1903, and while this sum includes payment for certain works completed in 1903, at least an equal amount will be paid in 1905 for works completed in 1904. For the purpose of comparison with the expenditure of former years and of showing the growth of the annual expenditure of the department, the following table, compiled from former reports, is appended.

Expenditure in 1899.....	\$146,403
“ “ 1900.....	175,960
“ “ 1901.....	236,574
“ “ 1902.....	298,238
“ “ 1903.....	372,220
“ “ 1904.....	611,417

Showing that in 1904 \$465,014 was expended over and above the amount expended in 1899. On a percentage basis the expenditure of 1900 was 20.19 per cent. above that of 1899 that of 1901 “ 34.45 “ “ “ 1900 “ 1902 “ 26.06 “ “ “ 1901 “ 1903 “ 31.51 “ “ “ 1902 “ 1904 “ 64.26 “ “ “ 1903 “ 1904 “ 317.62 “ “ “ 1899

For the sake of uniformity the system adopted in the preparation of former reports will be followed as nearly as possible throughout this report with the exception that since the small local improvement districts have been disorganised by the new ordinance which came into effect on the 1st of January, 1904, there will in consequence be no list of overseers of local improvement districts, but instead, a list of the districts organised during 1904 is appended, showing their area and the names of the secretary-treasurers.

CORRESPONDENCE BRANCH.

Staff.....	{ 1 chief clerk. 4 clerks. 1 messenger.
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The following statement will show the large amount of correspondence handled by this branch during the year, also a marked increase over former years:

Communications received, 1902.....	42,251
“ “ 1903.....	46,306
“ “ 1904.....	75,264
Communications sent, 1902... ..	86,730
“ “ 1903.....	88,304
“ “ 1904.....	147,691
Irrigation Office, 1902.....	3,417
“ “ 1903.....	3,519
“ “ 1904.....	5,548
“ “ special circulars, 1904.....	3,500
Total, 1902.....	132,398
“ 1903.....	140,929
“ 1904.....	232,003
Average number dealt with daily, 1902.....	431
“ “ “ “ 1903.....	463
“ “ “ “ 1904.....	761
Entries of cash received, 1902.....	9,651
“ “ “ 1903... ..	10,429
“ “ “ 1904.....	18,468

This shows an increase of communications received and sent over and above 1903 of 91,074, or a daily average of 761 communications handled by the department.

THE COAL MINES REGULATIONS ORDINANCE.

Inside staff.....1 clerk and stenographer.
Outside staff.....1 inspector.

Five new coal mines were opened up during the year of which the department has been notified and the following schedule shows the mines which have been operated in the Territories of which we have a record in the department:

Output of Coal during the Year 1904.

Bituminous and lignite coal.	759,568 tons
Anthracite coal.	23,363 "
Total	782,931 "

It will be observed that the total output of bituminous and lignite coal exceeds that of 1903 by 141,814 tons, being an increase of about 22.95% on these two classes. The increase in the production of anthracite to 18,178 tons over last year's output is accounted for by the operation of Bankhead mines at Banff.

SCHEDULE of Accidents in Coal Mines in 1904.

LOCATION	Character of Accident			Total of accidents
	Resulting in death	Serious injury	Slight injury	
Blairmore .....	.	1	..	1
Canmore .....	.	1	..	1
Coalfields	2	1	1	4
Coleman .....	.	1	4	5
Edmonton.	1	..	1	2
Estevan .....	..	1	..	1
Frank	3	..	..	3
Lethbridge .....	.	3	1	4
Lubreck .....	..	2	..	2
Total in Territories.	6	10	7	23

MINES opened in 1904.

NAME	LOCATION	OPERATED BY	CHARACTER OF COAL
Stewart Coal Co., Nonsuch.	Edmonton. ...	Stewart Coal Co.	Bituminous
.....	Clover Bar ..	O. S. Radway	"
.....	"	Phillip Ottewell	"
Barnes Colliery.	Lethbridge	Wm. Barnes	"
.....	Edmonton. ...	John Cameron	"

MINES in Operation which were Opened previous to 1904.

NAME	LOCATION	OPERATED BY	CHARACTER OF COAL
The H. W. McNeill Co., Ltd., Anthracite	Anthracite	The Canadian Anthracite Coal Co.	Anthracite
The H. W. McNeill Co., Ltd., Canmore	Canmore	The Canadian Anthracite Coal Co.	Bituminous
Alberta Railway and Irrigation Co., No. 3	Lethbridge	Alberta Railway and Irrigation Co.	"
Clover Bar	Clover Bar	Messrs. Daly and Lindsay	"
Edmonton Coal Co., Ltd.	Edmonton	Edmonton Coal Co., Ltd.	"
Sturgeon river	Namoo	Chas. G. Carnegie	"
Sturgeon	"	Robert Kelly	"
White Star	Strathcona	Messrs. Austin, Miller and McKenzie	"
Culley	Medicine Hat	Jos. Culley	"
Crockford	"	Messrs. Crockford Bros.	"
Souris Coal Mining Co., Ltd., Hassard Mine No. 1	Coalfields	Souris Coal Mining Co., Ltd.	"
Souris Coal Mining Co., Ltd., Farmers' Mine	"	Souris Coal Mining Co., Ltd.	"
Souris Coal Mining Co., Ltd., Roche Percee Mine No. 3	"	Souris Coal Mining Co., Ltd.	"
Raith	Edmonton	Wm. Humberstone	"
Frank Collieries	Frank	The Canadian - American Coal and Coke Co., Ltd.	"
Eureka Coal and Brick Co., Ltd	Estevan	Eureka Coal and Brick Co., Ltd.	"
Souris Coal Mining Co., Ltd., New Mine, No. 2	Coalfields	Souris Coal Mining Co., Ltd.	"
Pioneer	Lethbridge	Jas. Ashcroft	"
Galbraith	Cowley	R. J. Galbraith	"
Essar	Medicine Hat	M. Essar	"
Hoover	"	T. Hoover	"
Lille, A	Blairmore	West Canadian Collieries, Ltd.	"
Coal Coulee	High River	Messrs. D. E. Riley and Thompson	"
Blackfoot	Gleichen	Blackfoot Indians	"
Bonner	Namoo	Messrs. Dawkins and Speers	"
Breckenridge - Lund Coal Co., Ltd.	Lubreck	Breckenridge - Lund Coal Co., Ltd.	"
Bankhead	Bankhead	Pacific Coal Co.	Anthracite
Bienfait	Bienfait	C.P.R. Mining and Metallurgical Department	Bituminous
Sutherland	Coalfields	Roche Percee Coal Mining Co., Ltd.	"
Bellevue	Blairmore	West Canadian Collieries, Ltd.	"
Dennison	Coleman	International Coal & Coke Co.	"
Brandt	Edmonton	F. A. Brandt	"
"	"	W. J. Baldwin	"
Big Island	Strathcona	Messrs. Martin Bros.	"
"	Knee Hill	T. Hunt	"
Morinville	Morinville	Messrs. Chevigny & Steffas	"
Gillespie	Medicine Hat	Frank Gillespie	"
"	Edmonton	Edmonton Coal Co., Ltd.	"
Russell	Lethbridge	Geo. F. Russell	"
White Light	Edmonton	Messrs. Evans & Robinson	"

MINES in Operation which were Opened previous to 1904—*Continued.*

NAME	LOCATION	OPERATED BY	CHARACTER OF COAL
Keith	Clover Bar	Messrs. Fowler, Keith and Fulton ..	Bituminous
.. .. .	Edmonton	Messrs. Milner and Co.	"
.. .. .	Cowley	Alberta Coal and Coke Co.	"
.. .. .	Coalfields	Silas Griffiths	"
Clover	Clover Bar.	O. S. Radway	"
.. .. .	"	Phillip Ottewell	"
.. .. .	Edmonton	John Cameron	"
.. .. .	"	Jas. Milner	"
.. .. .	Lineham	Messrs. Cooper & McPherson ..	"
.. .. .	Edmonton	The Mays Coal Co.	"
.. .. .	Piicher Creek ..	E. G. Ambrose	"

MINES Abandoned during the Year 1904.

NAME	LOCATION	OPERATED BY	CHARACTER OF COAL
H. W. McNeill Co., Ltd.	Anthracite	The Canadian Anthracite Coal Co.	Anthracite
Milner	Edmonton	Jas. Milner	Bituminous
Fourfoot.	Estevan	Henry Yardley	"
.. .. .	Edmonton	Edmonton Coal Co., Ltd.	"

Certificates issued to candidates who successfully passed examinations during the year 1904:

Wm. Price Williams.	Blairmore, Alta.	Manager.
Caleb Cox Symons.	Coalfields, Assa.	"
John Bastian.	Banff, Alta.	"
Wm. Musgrove.	Anthracite, Alta.	Pit Boss.
Raoul Green.	Blairmore, Alta.	"
Samuel A. Jones.	Lethbridge, Alta.	"
Robert George Duggan	Frank, Alta.	"
Charles Phillips.	"	"
John Bastian.	Bankhead, Alta.	"
Joseph Adelard Seguin	Estevan, Assa	"
Samuel McVicar.	Frank, Alta.	"
John William McKean	Lethbridge, Alta.	"
George L. Fraser.	Coleman, Alta	"
Oliver Hall.	Bellevue, Alta	"
Wm. J. Spencer.	Anthracite, Alta.	Fire Boss.
Joséph James.	Frank, Alta.	"
Harry Gate.	Coleman, Alta.	"
Robert George Duggan.	Frank, Alta.	"
Charles Chestnutt	"	"
Thomas Harrison.	Banff, Alta.	"
Thomas Wm. Bastian.	Bankhead, Alta.	"
David Thomas.	"	"
Robert Smith.	Canmore, Alta	"
Evan Henry Griffiths.	"	"
Matt Mattson.	"	"
Hugh Smith.	"	"
Hugh G. McKinnon.	"	"
Thomas Haines.	Coleman, Alta.	"
John Stott.	Lethbridge, Alta.	"
Henry Fairhurst.	"	"
Robert Harvie	"	"

Certificates issued under Section 17 of The Coal Mines Regulations Ordinance, during 1904.

Manager Certificates.

Arthur Rupert Wilson.....	Michel, B.C.
Robert G. Drinnan.....	Fernie, B.C.
James Finlayson.....	"
Robert Strachan.....	"
Wm. Henry Wall.....	Nanaimo, B.C.
Edward Everett Reynolds.....	Coleman, Alta.
Francis Henry Shepherd.....	Nanaimo, B.C.
Thomas Mills.....	"
Richard Nash Pearson.....	Frank, Alta.
Jas. Ambrose Richards.....	Nanaimo, B.C.
Herbert Bertrand Wright.....	Fernie, B.C.
Henry Lewis Manley.....	"
David Richard Mewellyn.....	Michel, B.C.
John John.....	Fernie, B.C.
Thomas Russell.....	Victoria, B.C.
George Herbert Broome.....	Frank, Alta.
Luke Raisbeck.....	Lethbridge, Alta.

Certificates of competency now held under The Coal Mines Regulations Ordinance.

Manager Certificates.

Dan Evans.....	Michel, B.C.
W. D. L. Hardie.....	Lethbridge, Alta.
James J. Morris.....	Canmore, Alta.
John Little.....	Coalfields, Assa.
Wm. Hamilton.....	"
O. E. S. Whitesides.....	Anthracite, Alta.
Frank B. Smith.....	Calgary, Alta.
Edwin P. White.....	Crow's Nest, B.C.
James Hargreaves.....	Fernie, B.C.
Thos. R. Stockett, Jr.....	"
Robinson Pearson.....	"
John B. Wyllie.....	Frank, Alta.
Cyrus Morris.....	"
Archibald Waite.....	Coalfields, Assa.
Robert Livingstone.....	Lethbridge, Alta.
James McEvoy.....	Fernie, B.C.
John Brown.....	Banff, Alta.
Wm. Addie.....	Frank, Alta.
Daniel Elliott.....	Blairmore, Alta.
Charles Simister.....	Morrissey, B.C.
David Wilson.....	"
Elijah Heathcote.....	"
W. F. Collins.....	Blairmore, Alta.
John Leitch Parker.....	North Star, B.C.
Charles Michael Henretta.....	Banff, Alta.
Alexander Kerr.....	Tonkin, B.C.
Arthur Rupert Wilson.....	Michel, B.C.
Robert G. Drinnan.....	Fernie, B.C.
James Finlayson.....	"
Robert Strachan.....	"
Wm. Henry Wall.....	Nanaimo, B.C.
Edward Everett Reynolds.....	Coleman, Alta.
Francis Henry Shepherd.....	Nanaimo, B.C.
Thomas Mills.....	"
Wm. Price Williams.....	Blairmore, Alta.
Caleb Cox Symons.....	Coalfields, Assa.
Richard Nash Pearson.....	Frank, Alta.
Jas. Ambrose Richards.....	Nanaimo, B.C.
Herbert Bertrand Wright.....	Fernie, B.C.
Henry Lewis Manley.....	"

David Richard Llewellyn.....	Michel, B.C.
John Bastian.....	Banff, Alta.
John John.....	Fernie, B.C.
Thomas Russell.....	Victoria, B.C.
George Herbert Broome	Frank, Alta.
Luke Raisbeck	Lethbridge, Alta.

Pit Boss Certificates.

Gus Ostheidt	Anthracite, Alta.
John Musgrove	Canmore, Alta.
Charles Emerson.....	"
Alfred Davis	Lethbridge, Alta.
J. C. Livingstone	"
Robert Livingstone	"
Hugh Scott	"
T. H. Williams.....	Canmore, Alta.
Archibald Waite	Estevan, Assa.
Cory Weatherby.....	Fernie, B.C.
Thos. Steele	Frank, Alta.
Thos. Corkill.....	"
H. R. Giffen	Coalfields, Assa.
W. G. Pearson.....	Frank, Alta.
W. G. Flint.....	Anthracite, Alta.
Wm. Musgrove	"
Raoul Green	Blairmore, Alta.
Samuel A. Jones.....	Lethbridge, Alta.
Robert George Duggan	Frank, Alta.
Charles Phillips	"
John Bastian	Bankhead, Alta.
Joseph Adelard Seguin.....	Estevan, Assa.
Samuel McVicar	Frank, Alta.
John William McKean.....	Lethbridge, Alta.
George L. Fraser.....	Coleman, Alta.
Oliver Hall.....	Bellvue, Alta.

Fire Boss Certificates.

W. E. Watkins	Anthracite, Alta.
John Wilson.....	Canmore, Alta.
J. W. Watkins.....	"
Wm. Cowan	"
John James McKay	Lethbridge, Alta.
Robert Scott.....	"
Robert Livingstone	"
Hugh Scott	"
Wm. Musgrove	Canmore, Alta.
Wm. Taylor	Lethbridge, Alta.
Archibald Waite.....	Estevan, Assa.
Evan Jones	"
John Anderson.....	Canmore, Alta.
Charles Phillips	Frank, Alta.
Geo. E. Holmes	Fernie, B.C.
Wm. John Davies	Canmore, Alta.
Samuel A. Jones	Lethbridge, Alta.
J. C. Livingstone	"
H. R. Giffen.....	Coalfields, Assa.
Andrew Hood	Frank, Alta.
S. H. Turner	Canmore, Alta.
Joseph Sedlock.....	"
John Hadfield	"
Thomas Downs	"
Wm. J. Spencer.....	Anthracite, Alta.
Joseph James	Frank, Alta.
Harry Gate.....	Coleman, Alta.
Robert George Duggan	Frank, Alta.
Charles Chestnut.....	"
Thomas Harrison	Banff, Alta.

Thomas Wm. Bastian	Bankhead, Alta.
David Thomas	"
Robert Smith	Canmore, Alta.
Evan Henry Griffiths	"
Matt Mattson	"
Hugh Smith	"
Hugh G. McKinnon	"
Thomas Haines	Coleman, Alta.
John Stott	Lethbridge, Alta.
Henry Fairhurst	"
Robert Harvie	"

CALGARY, *January 3, 1905.*

JNO. STOCKS, Esq.,

Deputy Commissioner of Public Works,
Regina, Assa.

SIR,—I have the honour of presenting my report as Inspector of Coal Mines for the North-West Territories, for the year ending the 31st of December, 1904. Taking up the subjects as required by the Lieutenant Governor in Council in the appointment of an inspector under sections 34 and 35 of the Coal Mines Regulations Ordinance, No. 9, 1898.

The output of the coal mines in the Territories has considerably increased during the past year, and the number of mines added to the list is five. The total number of mines that have been opened since a tabulated list was compiled by the department is ninety-three (93). A short summary of the statistics for 1904 is as follows:

Number of Mines opened in the district	93
" " " known to be in operation	51
" " tons produced in 1904	782,931
" " persons employed in the mines	1,482
" " persons employed outside the mines	537
" " fatal accidents in the mines	5
" " fatal accidents outside the mines	1

The following companies have been the largest producers during the past year:

- The Alberta Railway & Irrigation Co.—Lethbridge, Alta. No. 3 shaft.
- The Canadian-American Coal and Coke Co.—Frank, Alta. No. 1 entry, No. 2 entry and No. 3 shaft.
- The West Canadian Colliers, Ltd.—Blairmore, Alta. Nos. 1, 2 and 3 entries at Little Colliery. No. 1, entry at Bellvue Colliery.
- The International Coal and Coke Co.—Coleman, Alta. No. 1 entry and No. 1 slope.
- The H. W. McNeill Co.—Canmore, Alta. No. 1 slope.
- The H. W. McNeill Co.—Anthracite, Alta. No. 1 slope (now abandoned).
- The Souris Coal Co.—Coalfields, Assa. Nos. 1, 2, 3 and 4 entries, and No. 1 slope.
- The C.P.R. Mining and Metallurgical Dept.—Bankhead, Alta. Nos. 1, 2 and 3 entries and No. 1 slope.
- The C.P.R. Mining and Metallurgical Dept.—Bienfait, Assa. No. 1 slope.
- The Breckenridge-Lund Coal Co.—Lubrek, Alta. No. 1 entry.
- The Eureka Brick & Coal Co.—Estevan, Assa. No. 2 entry.
- The Roche Percee Coal Mining Co., Ltd.—Roche Percee, Assa. No. 1 entry.
- The Edmonton Coal Co.—Edmonton, Alta. Nos. 1 and 2 entries.
- The Mays Coal Mining Co.—Edmonton, Alta. Nos. 1, 2 and 3 entries.
- The James R. Stewart Mining Co.—Edmonton, Alta. Nos. 1 and 2 entries.
- The Knee Hill Coal Co.—Knee Hill, Alta. No. 1 entry.

There are many other individual coal mine operators who have produced a fair output in the Edmonton, Estevan, High River, Crows Nest and Medicine Hat districts, which are all included in the total of the Territories for 1904. Quite a few small mines are in operation

in outlying districts that have not as yet been visited, and in some cases I think, no returns have been made; this I consider an oversight on the part of the operators, as the more publicity that is given to their districts, this their resources the larger will be the community to eventually consume their product. The Alberta Railway and Irrigation Co. have changed their title during the past year, eliminating the word "Coal," but this far from being a sign of the company going out of the coal market, has seemingly given a new impetus to them, as their coal production this year exceeds any previous one.

The hoisting plant at this colliery, although a comparatively old one, will be hard to beat in any coal field; the record was reached this year when over 2,000 tons of material was hoisted in ten hours. The ventilating plant has been relieved to a certain extent by a connection being made to No. 4 shaft.

The endless rope haulage has been extended to suit the requirements of the colliery; a new box car loader was installed but did not prove suitable to handling the class of coal.

Other improvements have been made on the plant in proportion to the increased output.

The Canadian-American Coal & Coke Co. have within the past twelve months overcome the difficulties that beset them after the terrible landslide of April, 1903, which practically wiped out their whole plant. The old entry has now been thoroughly opened out with good connections to the surface; a new fan installed and now the company are busy putting in a main and tail rope haulage, also a box car loader to facilitate shipments. All the work at the new shaft has been completed and ready for hoisting coal.

No. 2 Adit Level on the north side of the railway, has for the present been stopped as they can supply their demands with the present workings.

The West Canadian Collieries, Ltd., have made an amalgamation of three properties, viz.—at Lille, Bellvue and Bryron Creek.

At Lille their work is now concentrated at No. 1 opening where a new tipple plant has recently been erected. The small coal from this colliery is all coked, the production of the ovens being over 100 tons per day.

At this company's Bellvue colliery development work has already progressed during the past year, that now they are capable of giving an output of 400 tons per day.

Bryron Creek Colliery has been closed for the present as all prospecting work has been completed.

The International Coal and Coke Co. has one of the model plants in the district. This mine although opened little more than a year ago is one of the large coal producers in the Pass. All their railway sidings have been completed, the tipple plant with hoisting arrangements, self-dumping cages and screening apparatus to place coal on the market for domestic, steam and coking use. Their ventilating fan with electric motive power is capable of producing 150,000 cubic feet of air per minute. A high pressure compound air plant has been completed by which their 7 ton air locomotive can be charged at three separate points and capable of drawing 30 loads on a $\frac{1}{2}$ per cent. grade. This is the first air locomotive that has been introduced in the district and is proving a

great success. The main entry is in about 3,000 feet driven in a 14 foot seam and about 1,000 feet in this gangway the measures have been cross-cut to a 6 foot seam which is an excellent coking coal.

A slope has been driven on this 6 foot seam to attain greater depth of working.

The H. W. McNeill Co. at their Cammore mines have been working steadily all year and their output will exceed the production of any previous year. The development of the mine has been carried vigorously until the production for one day is over 600 tons.

Many new improvements have been made at this colliery during the past year so as to improve the quality of the coal put on the market, and also to facilitate quicker shipping.

A new Phillips tippie has been built with creeper chain to bring the cars back to the top of the slope. After the coal has been dumped it is passed over shaker screens, and the lump and small elevated separated over picking tables at the end of which they are dumped together into large hoppers or coal bins. The coal from this mine is nearly all used for steam purposes, and the loading from these large coal bins can be done much quicker than by the old method of straight dumping into the box cars. The company are now erecting a new fan capable of producing 100,000 cubic feet of air per minute, which will allow of the workings being extended to a much greater distance than they are at present.

The H. W. McNeill Co. at Anthracite closed down this mine in June last on account of litigation with the adjoining property.

The Souris Coal Co. have again increased their output to what it was in former years, and no doubt the way in which this coal is taking the market through Estevan, Assiniboia and Manitoba, the increase will come year by year. The Company have now taken a wise step and started to open up a slope about the centre of their property and so concentrate all their work at one point.

A modern hoisting and tippie plant is to be erected at these new works.

The C.P.R. Mining and Metallurgical Dept. have put in a modern plant at Bienfait, Assa. The work here, however, has only been development, but executed in such a manner that should the other collieries in the district not be able to supply the demand then rooms can be immediately opened out and the production made equal to the demand.

The C.R.R. Mining and Metallurgical Dept. at Bankhead Mine, five miles from Banff, has pushed ahead the development work of their mines, erected a very large and modern plant and for the comfort of their employees have built one of the most modern mining villages on the continent. The mine is situated at the base of Cascade Mts., the seams having a general strike north and south, with a pitch varying from 40° to 75° dipping to the west. No. 2 gangway is in over 2,000 feet with very little sign of faulting. The main tunnel, at which point the permanent tippie plant is to be erected has now been connected with No. 2 seam and started again to crosscut the measures to tap all the other seams. The ventilation at present is by exhaust fan, capable of handling the work for some time but new and more powerful fans have been ordered so that each seam as it is developed will be ventilated separately.

The Breckenridge Lund Coal Co. have done considerable development work during the past year, and are now preparing to put up a new scientific plant alongside of the railway tracks.

The Eureka Brick and Coal Co., also the Roche Percee Coal Mining Co. are fastly developing the lignite field of South Estevan.

The Edmonton Coal Co., The Mays Coal Mining Co. and the James R. Stewart Mining Co. all operating in the Edmonton district are the pioneers of what must soon be a larger company probably an amalgamation of interests.

The Knee Hills Coal Co. Knee Hill, Alta. These mines although worked for a few years past in a desultory manner to supply a few ranchers the country is now filling up so fast that the company have now taken the matter up seriously and will develop accordingly until a railroad reaches them which should be in the near future.

Accidents.

The record of accidents fatal and non-fatal is, I think, more complete as far as statistics are concerned than in any previous year.

The tonnage output of the Territories has largely increased during 1904 and consequently the number of men employed has proportionately increased; I am pleased to say that the accidents have not increased in the same proportion although more minor accidents have been reported, this is more on account of the different managements taking more cognisance to our mining regulations.

In this connection I would respectfully draw your attention to the introduction of some amendments in our Coal Mines Regulations Ordinance, especially with regard to ambulance work.

Appended is a tabulated statement of the accidents which have been reported in 1904.

NO.	DATE	MINE	NAME	OCCUPATION	REMARKS
1	Jan. 6	Souris No. 2	David Arnot	Labourer	Leg broken; crushed between mine car and post
2	Feb. 23	J. R. Stewart Mine	Fred Basista	Miner	Injured by fall from roof; died 3 days later
3	" 24	Souris No. 2	James Featherstone	Driver	Slightly injured falling in front of cars
4	" 26	Humberstone Mine	Steve Batute	Miner	Slightly injured by fall of rock
5	April 4	Outside Souris Mines	John Chuchnuck	Labourer	Fatally injured between railway cars
6	" 5	Cannore	John Gorek	Miner	Double fracture of right leg; fall of rock
7	" 12	Lethbridge	Paul Furechuck	"	Thigh fractured; fall of rock
8	May 18	"	M. Guidnor	"	Suffocated by fall in chute and covered with coal
9	" 21	Lille	Antonio Gerny	"	Eye blown out; relighting a shot
10	June 15	Coleman	H. Grewentt, Jr.	"	Slightly burned
11	July 13	Lundorek	Joe Thomas	"	Severely burned, face and neck
12	" 13	"	Sam Howard	"	Slightly burned
13	" 31	Frank	Sam Melean	"	Suffocated by white damp after firing a shot
14	Aug. 1	"	G. Fauton	Trapper	Fatally injured between mine car and post
15	" 10	Coleman	M. Maestro	Miner	Slightly burned
16	" 10	Lethbridge	P. Botes	"	Face cut crowding on cage
17	Sept. 2	Coleman	J. Foulds	"	Burned on face and hands
18	" 4	Lethbridge	J. Jonostick	Driver	Leg broken between car and post
19	" 5	Souris	N. Gentner	Miner	Fatally injured by shot blowing into cross-cut
20	Oct. 8	Coleman	Steve Kuban	Labourer	Slightly hurt between car and chute
21	Nov. 22	"	G. Garbhar	Miner	Burned face and neck slightly
22	Dec. 10	Lethbridge	P. Kardink	Labourer	Ankle broken; fall of rock
23	" 15	Estevan	J. Bailey	Miner	Hip dislocation; fall of coal

Work of Inspection.

The larger mines in the Territories have all been visited six times, and when necessary oftener during 1904.

The smaller mines inspected every three months. The large extent of territory and the number of mines to be visited now occupies much more time than it did during previous years, and on this account I find it more advantageous to visit the extensive collieries oftener and so keep in touch with their development.

On these occasions the plans are examined, certain districts, mapped out to go to but visiting the main intake and main returns always. Here again I would respectfully ask you if possible at the next session of the Legislature that amendments be introduced into the Ordinance which amendments would greatly facilitate my work of inspection. My reports of inspection have been made to the department after each visit to a colliery and then all details as to the workings have been gone into. This past year I have taken up the statistics of the different collieries with regard to ventilation, pumping, haulage, rails used, modes of working, lights used, machinery, etc., and have them tabulated for information of the department at any time; the quality of the coal in the different districts I also looked up, and the following is an approximate analysis of the same.

Crows Nest District.

	1.	2.	3.	4.	
Moisture.....	0.85	2.0	0.77	1.8	} All coking
Vol. com. matter....	21.15	20.2	19.58	27.1	
Fixed carbon.....	68.46	69.2	73.62	63.8	
Ash.....	9.25	8.6	5.80	0.3	
Sulphur.....	0.31	Trace	0.23	1.0	

Cowley District.

	1.
Moisture.....	3.7
Vol. com. matter.....	53.6
Fixed carbon.....	31.8
Ash.....	10.9

Lethbridge District.

	1.
Moisture.....	7.42
Vol. com. matter.....	43.83
Fixed carbon.....	44.92
Ash.....	3.83

Souris District.

	1.
Moisture.....	16.92
Vol. com. matter.....	38.58
Fixed carbon.....	40.72
Ash.....	3.78

Canmore and Bankhead.

	1.	2.	1.
Moisture.....	.45	1.6	.41
Vol. com. matter.....	13.01	14.7	12.00
Fixed carbon.....	84.04	79.0	83.78
Ash.....	2.50	4.7	3.81

Examinations.

The work in connection with examinations was increasing so rapidly that it has been decided to hold them only twice a year, dividing the Territories into three separate districts, Canmore, Crows Nest and Coalfields. The applicants for the different certificates in 1904 were so numerous that seven examinations had to be held, and of these 16 passed for fire boss, 10 for pit boss and 4 for mines manager's certificate.

During the year I had several complaints from mine managers with regard to the incompetency or lack of getting good officials, so that I have been compelled to entirely cancel all the old examination papers and each examination will now be different from the previous one. In the case of pit boss or fire boss the board of examiners reserve the right to give these candidates a thorough *viva voce* examination. It is pleasing to note the interest that is now taken by the miners to pass these examinations, each one seeming to strive with the other to see who will receive the largest percentage. Some of the papers examined this year by the various boards have surpassed anything that was ever before presented to them. Many of these certificated men have not the Ordinance and I think it would be wise to include this in the annual report sending a copy to each official on the department's list.

Coal Mining Prospects.

The prospecting and location of the new coal areas in the Territories is still vigorously carried on.

The eye of the public has been so favourably attracted by the bright prospects of the future Territories that there is no trouble in securing capital to develop any reliable company's holdings.

All the different coal districts show a remarkable increase in population and the companies operating in them are certainly keeping up their improvements to meet the increased demand.

I have the honour to be, sir,

Your obedient servant,

FRANK B. SMITH,

Inspector of Coal Mines.

THE STEAM BOILERS ORDINANCE.

Inside staff	{ 1 clerk in charge
	{ 1 stenographer
Outside staff	4 inspectors

As in previous reports, it will be observed that this year there is an increase in all sections of work connected with The Steam Boilers Ordinance.

The staff of inspectors remains the same as last year with one exception, and in this instance a new appointment was made. Inspector W. M. Carment, appointed March 22nd, 1900, tendered his resignation on May 31st, 1904, but owing to the difficulty in obtaining another inspector, it was not possible to relieve him from duty until August 4th. Mr. Carment was in his fifth year of service as an inspector, and during the whole of this time performed his duties in an entirely satisfactory

manner. Between the first of the year and the date of his leaving the service Mr. Carment inspected 119 boilers, and held a number of examinations for engineers.

To fill the vacancy on the staff caused by Mr. Carment's resignation, Mr. David Fraser, of Strathcona, was appointed. He commenced his duties in the South-eastern Assiniboia District, but later returned to Strathcona, as owing to the large increase in the amount of work to be done in Alberta, his services were found necessary to take over the northern part of Inspector Buxton's district, and he has been permanently appointed to that portion of the Territories.

The following are the names and addresses of the Inspectors :

Wm. Waller.	Whitewood
Wm. Mayhew.....	Whitewood
Jos. Buxton.....	Calgary
David Fraser.	Strathcona

Some changes were made in allotting inspectors to different districts than they had previously covered. On this account the increase in the number of boilers inspected does not appear as marked as last year, although from data in the hands of the inspectors it is known that the number of boilers in the Territories is increasing very rapidly. There is still one district to which no inspector has been appointed to devote his whole time, but it is in the hands of Inspector Mayhew, who has the North-eastern Assiniboia District, until a new appointment can be made.

The schedule given below shows the ground covered during the past year in connection with the administration of this Ordinance. It also draws a comparison between the work of the year 1903 and 1904 :

	1903	1904	Increase
Number of boilers inspected.....	1125	1192	67
Number of examinations of engineers held..	178	261	83
Number of first class engineer's certificates issued	5	5	
Number of second class engineer's certificates issued	39	58	19
Number of third class engineer's certificates issued.....	144	199	55
Number of provisional certificates of qualification issued	410	583	173
Number of permits for operation of steam boilers issued.....	42	49	7
Fees collected :			
For inspection of boilers.....	\$5,680.00	\$6,250.00	\$570.00
For final certificates under section 28		87.00	
For examination of engineers	663.00	783.00	207.00
For provisional certificates.....	1,242.00	1,746.00	504.00
For permits for operation of steam boilers	126.00	147.00	21.00
Totals.	\$7,711.00	\$9,013.00	\$1,302.00

In addition to the certificates recorded in the above schedule as issued, some 28 second provisional certificates have been issued, under subsection 2 of Section 29, to engineers who failed to pass their examination for a final certificate.

It will be observed that the number of final certificates issued is small compared with the issue of provisional certificates.

There has been an increase of \$1,302.00 in the amount of revenue collected.

It is very gratifying to be able to report that no accident has occurred during the past year, for which the condition of a boiler is accountable, although there are nearly twelve hundred in operation.

The annual reports of the staff of inspectors, and a list of all Final Certificates issued to date, are submitted herewith :

WHITEWOOD, *December, 31st, 1904.*

JOHN STOCKS, Esq.,
Deputy Commissioner of Public Works,
Regina, Assa.

Sir,—I have the honour to submit my annual report as Inspector of Steam Boilers for the year 1904 in accordance with Section 19 of The Steam Boilers Ordinance.

The number of boilers inspected by me during the past year is 285, which may be classed as follows :

Locomotive traction.....	140
“ portable	65
Return tube, traction.....	32
“ “ portable.....	28
Stationary tubular.....	17
“ vertical.....	3
Total.....	—285

Conditions of Boilers.

Good.....	245
Very fair.....	21
Fair.....	17
Poor.....	1
Bad.....	1

The last one I condemned as unfit for further use. Repairs were ordered on 35 boilers; new steam gauges on 3 and new safety valves on 4. In all 71 boilers came in during the year of which 57 were new, and 14 had been in use before.

At the end of July I was transferred from the South-eastern to the North-eastern Assiniboia District through the resignation of Mr. W. M. Carmont of Yorkton. Up to that time I had inspected 146 boilers, and since being transferred I have inspected 139.

I have held 22 advertised examinations, and others I have had to arrange as I was passing through my district to accommodate engineers living at a distance from the towns, as they say they do not know of the examinations being held until it is too late. I have held these examinations to assist in supplying the need of certificated engineers as owing to the large increase in the number of boilers every year the demand for certificated men is not kept up with.

I have no accidents or casualties to report in my district during the past year.

I have the honour to be, Sir,

Your obedient servant,

WM. MAYHEW,
Inspector of Steam Boilers,

STRATHCONA, *December 31st, 1904.*

JOHN STOCKS, Esq.,

*Deputy Commissioner of Public Works,
Regina, Assa.*

SIR,—I have the honour to submit to you my annual report as Inspector of Steam Boilers for the the year 1904 in accordance with Section 19 of the provisions of The Steam Boilers Ordinance.

I commenced my duties in North Alberta on the 27th of August, and on the 19th of September was assigned the South-eastern District of Assiniboia as my field of work. During the season I inspected 131 boilers. Of that number 49 were new and 5 had been brought into the district from other places.

The number of the different classes and their condition are as follows:

Locomotive fire box.....	102
Return tubular.....	15
Horizontal tubular.....	13
Upright tubular.....	1

Of this number 125 were in good condition, and six in fair condition. Various repairs were ordered in nine boilers, also three new safety valves, and two steam gauges.

Owing to the scarcity of engineers during the threshing season, I had to issue seven permits to people who could not get men with certificates. I received application for 44 provisional certificates. I held an examination in Strathcona and also at five different points in Assiniboia, where 44 candidates wrote for final certificates.

There have been no accidents or casualties reported to me during the season.

I have the honour to be, Sir,

Your obedient servant,

DAVID FRASER,
Inspector of Steam Boilers.

WHITEWOOD, *December 31st, 1904.*

JOHN STOCKS, Esq.,

*Deputy Commissioner of Public Works,
Regina, Assa.*

SIR,—I have the honour to submit to you my fifth annual report as Inspector of Steam Boilers.

As in previous years I was instructed to proceed to Battleford to overhaul the steam ferry and put the boat in the water, which was done successfully. Owing to the ice jam and the sudden rise of the water at the same time, the work of caulking the boat was delayed. The ferry was running on May 7th, after which I commenced the inspection of steam boilers in the Battleford district.

The number of boilers is increasing very rapidly. I have inspected 326 boilers during 1904. Of this number 50 had not been inspected before as far as I could find out. There are some eight or ten boilers which have not been inspected this year, but it will be seen by my returns that I made every effort to get around to them all before it froze up.

The following is a description of the boilers inspected:

Locomotive fire box, traction.. . . .	160
“ “ “ portable	47
Return tubular “	8
“ “ traction	45
“ “ stationary	8
Tubular stationary	30
Riveted tubular stationary	7
Locomotive fire box with return tubes, traction	8
“ “ “ portable	2
Upright tubular, portable	7
“ “ stationary	2
Water tubular	2
Total	—326

Inspected 274 in good condition; 51 in fair condition and one in bad condition.

It is to be regretted that some firms are supplying very inferior steam gauges, the principal defect being that no hair spring is provided to hold the finger from indicating five or ten pounds more or less. Because of this the steam gauges are very difficult to set to indicate the same as the test gauge.

As in the lock pop safety valve, I think the department should do something to prevent the use of such steam gauges and protect the public against fraud in this respect, especially the threshers, for it is principally with them the unprincipled dealer tries to sell his trash.

I have the honour to be, Sir,

Your obedient servant,

WILLIAM WALLER,
Inspector of Steam Boilers.

CALGARY, December 31st, 1904

JOHN STOCKS, Esq.,

Deputy Commissioner of Public Works,

Regina, Assa.

SIR,—I have the honour to submit my annual report for the year 1904 as Inspector of Steam Boilers in accordance with Section 19 of The Steam Boilers Ordinance.

During the past year I held examinations at various parts in the District.

Applicants for First Class Certificates	2
“ “ Second “ “	20
“ “ Third “ “	60 including
apprentices. Of this number who took the examination there graded as follows:	
1st Class	2
2nd „	16
3rd „	55
Failed, or recommended for Second Provisional Certificates.	5

The number of boilers inspected by me during the past year was 332. The following is a description of boilers inspected:

Locomotive and portable fire box type	121
Horizontal tubular	93
Horizontal flue and furnace type	19
Return tubular	45
Water tube	6
Upright tubular	42
Upright cross sectional	6
Total	—332

I found these boilers in the following condition :

Good	253
Very fair	61
Fair	18

Repairs were ordered on six boilers this year, one boiler in particular was badly damaged, and a new crown sheet and retubing had to be ordered.

There are ten boilers not in use in this district, also eight new ones almost ready to operate.

There has been a steady improvement in the boilers in my district, which without doubt is largely due to the provisions of The Steam Boilers Ordinance. Many of the larger companies are ordering larger boilers built on modern principles to carry a high pressure of steam. I would advise all owners who contemplate installing large boilers to have them slung with a yoke or truss, and in this way strengthen and improve the condition of their plant. I know of several firms who have had to replace the walls of the plant as well as some of the brackets on the boilers where the necessity for this could have been prevented had the back end of the boiler been slung as stated. If this advice were carried out very little trouble would result in the way of failure of walls.

I have the honour to be, Sir,

Your obedient servant,

JOS. BUXTON.

Inspector of Steam Boilers.

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance.

NAME	ADDRESS	DATE OF ISSUE
<i>First Class</i>		
Archibald, Harry P.	Lethbridge	15 August, 1900
Allan, John S. B.	Broadview	7 August, 1903
Brisette, Narcisse	Morinville	28 March, 1899
Bell, John	Prince Albert	"
Buxton, Joseph	Calgary	29 August, 1901
Cross, William	Calgary	28 March, 1899
Cook, George	Regina	"
Carment, William M.	Kamsack	"
Collison, George	Coalfields	"
Codd, Ernest F.	Calgary	5 June, 1900
Cadwell, Marcus D.	Qu'Appelle Station	18 July, 1901
Caldwell, Robert	Edmonton	16 October, 1903
Cross, Isaac E.	Ponoka	15 October, 1904
Evans, Daniel	Edmonton	28 March, 1899
Fraser, David	Strathcona	9 October, 1899
Fisher, Frank D.	Fleming	11 April, 1901
Gale, Ernest A	Calgary	6 November, 1903

SCHEDULE of Holders of Certificates of Qualification under The Steam
Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>First Class—Continued</i>		
Holden, William J.	Indian Head.	28 March, 1899
Hicks, Robert.	Rossetti	24 December, 1900
Heist, William E.	Edmonton.	18 December, 1901
Holden, Richard W.	Hednesford.	28 August, 1902
Hubbard, Sydney T.	Edmonton.	8 April, 1904
Hardy, Rowan R.	Grenfell.	18 March, 1904
Jackson, John A.	Strathcona	23 October, 1900
Kirkland, Thomas.	Yorkton.	28 March, 1899
Kelly, John.	Edmonton	1 December, 1903
Liston, Robert F.	Battleford.	29 March, 1899
LeCain, H. C.	Hyde	29 January, 1903
Mayhew, William.	Broadview.	28 March, 1899
McNah, Franklin.	Fort Qu'Appelle.	28 March, 1899
McNaughton, Peter.	Edmonton.	9 October, 1899
McFee.	Red Willow	22 November, 1904
Niven, Robert	Lethbridge	28 July, 1900
Roop, Warren E.	Moose Jaw.	15 November, 1900
Scott, John.	Lethbridge	28 March, 1899
Smith, Percy Lewis.	Prince Albert.	4 April, 1899
Smith, John McKenzie.	"	"
Sutherland, J. A.	Broadview.	29 September, 1899
Stapley, Tobias B.	Edmonton.	18 April, 1904
Turgeon, Cleophas	Edmonton.	28 March, 1899
Taylor, George R.	Strathcona	"
Turner, Orlando H.	Calgary.	31 July, 1901
Waller, William.	Whitewood	6 November, 1900
Wilcox, Wellington C.	Moosomin.	25 April, 1901
Yates, David	Banff.	5 July, 1901
<i>Second Class</i>		
Amas, Frank	Qu'Appelle Station.	29 September, 1899
Abbey, Oliver A.	Moose Jaw.	29 September, 1900
Abhatt, James L.	Moosomin	15 November, 1900
Anderson, C. J. B.	Calgary.	7 February, 1901
Arnold, Archie F.	Yorkton.	16 August, 1901
Angus, Robert.	Angus Ridge	2 October, 1901
Anderson, Seymour A.	Saltcoats	13 July, 1903
Askin, Michael D	Arcola.	14 August, 1903
Adair, Thos F.	Lippentott.	3 November, 1904
Ballantyne, Robt.	Calgary.	14 March, 1904
Bourns, R. H.	Whitewood	8 April, 1904
Boden, T. W.	Weyburn	11 May, 1904
Barnhouse, Wm.	Edmonton.	26 May, 1904
Beare, W. J.	Indian Head.	14 September, 1904
Burkholder, H. J.	Strathcona	15 October, 1904
Bawtinheimer, George H.	Red Deer.	4 September, 1899
Brayne, Joseph	Calgary.	1 December, 1899

SCHEDULE of Holders of Certificates of Qualification under The Steam
Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Second Class—Continued</i>		
Biery, Charles.....	Strathcona.....	7 March, 1900
Barley, George T.....	Prince Albert.....	28 May, 1900
Brydges, Alonzo H.....	Moosomin.....	30 May, 1900
Bierworth, Ernest.....	Carnduff.....	19 July, 1900
Burke, Fred.....	Gainsborough.....	7 August, 1900
Blachford, K. A.....	Edmonton.....	23 October, 1900
Boyes, Henry.....	Indian Head.....	30 October, 1900
Brown, John E.....	Spy Hill.....	24 December, 1900
Blain, J. W.....	Strathcona.....	31 December, 1900
Blair, Andrew.....	Lumsden.....	23 November, 1900
Bishop, Walter.....	Oxbow.....	20 April, 1901
Bennett, Joseph.....	Arcola.....	29 May, 1901
Bull, Francis W.....	Yorkton.....	16 August, 1901
Bannerman, James A.....	Red Deer.....	18 December, 1901
Brownlow, Henry A.....	Lacombe.....	23 December, 1901
Bell, Harry J.....	Sintaluta.....	19 February, 1903
Brewster, W. A.....	Edmonton.....	13 May, 1903
Bowden, H. S.....	Strathcona.....	"
Bull, Edmund W.....	Regina.....	28 August, 1903
Cope, Edmund G. M.....	Lethbridge.....	30 June, 1899
Clark, W. Harold.....	Edmonton.....	9 October, 1899
Cumming, Thomas C.....	Whitewood.....	15 November, 1899
Collopy, Alexander.....	Alameda.....	"
Conn, David.....	Lethbridge.....	23 March, 1900
Clow, Charles.....	Ellisboro.....	25 April, 1900
Chalmers, Walter N.....	Edmonton.....	28 May, 1900
Collopy, Thomas.....	Alameda.....	19 July, 1900
Cullen, James E.....	Calgary.....	21 February, 1901
Croft, J. Thomas.....	Carievale.....	15 April, 1901
Codd, Ernest.....	Wapella.....	23 January, 1902
Converse, Stephen J.....	Ponoka.....	6 March, 1903
Clifford, Robert A.....	Strathcona.....	13 May, 1903
Cooper, Thomas.....	Carievale.....	15 September, 1903
Cole, Henry.....	Halbrite.....	24 September, 1903
Chapman, A. B.....	Red Deer.....	18 April, 1904
Clark, Eldon.....	Carnduff.....	27 May, 1904
Clements, Lewis J.....	Arcola.....	19 July, 1904
Callery, Frederick.....	Calgary.....	12 September, 1904
Donaldson, Maxwell.....	Lethbridge.....	23 March, 1900
Dickson, William.....	Oxbow.....	19 July, 1900
Donald, J.....	Moosomin.....	29 September, 1900
Dyck, Abraham.....	Waldheim.....	20 November, 1900
Dimmick, W. J.....	Fleming.....	24 December, 1900
Darragh, Joseph.....	Oxbow.....	20 April, 1901
Drain, William.....	Prince Albert.....	30 May, 1901
Doughty, James.....	Calgary.....	25 July, 1901
Dash, Frederick J.....	Hillesden.....	29 August, 1901
Dagleish, Thomas.....	Wapella.....	"
Dresser, Bertram W.....	Wetaskiwin.....	18 October, 1904
Drees, Max L.....	Strathcona.....	"
Decker, W. H.....	Regina.....	10 November, 1904
Drader, J. A.....	Pincher Creek.....	30 December, 1904
Evans, Harry W.....	Anthracite.....	13 February, 1900
Eddy, Alexander.....	Medicine Hat.....	5 November, 1900
Emery, Ray E.....	Strathcona.....	15 October, 1904

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—Continued.

NAME	ADDRESS	DATE OF ISSUE
<i>Second Class—Continued</i>		
Floiliott, L. H.	Grenfell.....	29 September, 1899
Fitzgerald, Walter G.	Belle Prairie.....	25 April, 1900
Ford, William H.	Wideawake.....	24 January, 1901
Fothergill, Charles	Glen Adelaide.....	11 April, 1901
Foster, James.....	Glen Ewen.....	30 April, 1901
Fletcher, Thomas.....	Hillfarm.....	2 July, 1901
Freeman, Manfred.....	Lethbridge.....	18 August, 1902
Finch, Robert H.	Calgary.....	10 October, 1902
Finn, James E.	Fort Qu'Appelle.....	9 February, 1902
Frame, James F.	Lethbridge.....	6 October, 1903
Fleetwood, Howard A.	Edmonton.....	15 October, 1904
Fraser, Wm.	Strathcona.....	"
Fletcher, Alexander.....	Prince Albert.....	16 November, 1904
Friesen, A. B.	Winnipeg.....	23 November, 1904
Finlay, David M.	Moosomin.....	15 December, 1904
Green, George.....	Moose Jaw.....	29 September, 1899
Grant, George.....	Wolseley.....	25 April, 1900
Goodfellow, Willard R.	Prince Albert.....	28 May, 1900
Goodman, J.	Moosomin.....	29 September, 1900
Gibson, Fred A.	".....	"
Gamble, Alva H.	Moose Jaw.....	15 November, 1900
Green, Frederick W.	".....	13 December, 1900
Grieve, David.....	Calgary.....	7 February, 1901
Gilchrist, Peter.....	Regina.....	14 September, 1901
Garratt, Lyle E.	Grenfell.....	25 August, 1902
Griffiths, Edward.....	Eastview.....	14 September, 1904
Garneau, Alexander.....	Strathcona.....	15 October, 1904
Grieve, Wm.	Calgary.....	28 October, 1904
Garner, Geo.	Prince Albert.....	16 November, 1904
Hubbard, Sydney T.	Edmonton.....	9 October, 1899
Hennigar, Edward J.	".....	"
Hamill, Thomas T.	Whitewood.....	18 November, 1899
Haines, Alfred H.	Edmonton.....	7 March, 1900
Hillis, Henry.....	Medicine Hat.....	23 March, 1900
Humphrys, William.....	Cannington Manor.....	19 July, 1900
Holden, Albert.....	Indian Head.....	5 September, 1900
Hicklin, John William.....	Calgary.....	29 September, 1900
Hoyer, Richard.....	Hednesford.....	"
Hiscox, Thomas S.	Regina.....	"
Hunt, Arthur.....	Wapella.....	11 April, 1901
Hames, Alfred A.	Oxbow.....	20 April, 1901
Howell, Edward.....	Battleford.....	30 May, 1901
Honey, James.....	Maryfield.....	3 February, 1902
Hillis, Thomas.....	Lethbridge.....	18 August, 1902
Hammett, Richaad.....	Wolseley.....	25 August, 1902
Hardy, Rowan F.	Grenfell.....	"
Hennig, Michael.....	Calgary.....	10 October, 1902
Hanson, Michael.....	Dundurn.....	15 May, 1903
Heimer, Frank A.	Moosomin.....	1 October, 1903
Henry, Chas.....	Strathcona.....	18 April, 1904
Hobson, Francis W.	".....	15 October, 1904
Heatley, Wm.	Beaumont.....	28 October, 1904
Irwin, Lester J.	Strathcona.....	15 October, 1904
Jones, Frederick W.	Strathcona.....	9 October, 1899
Judd, David H.	Calgary.....	5 October, 1901
Jones, William C.	Indian Head.....	4 October, 1902
Jarratt, Edward.....	Strathcona.....	15 October, 1904

SCHEDULE of Holders of Certificates of Qualification under The Steam
Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Second Class—Continued</i>		
Keenan, James S.	Moosomin	21 March, 1900
Kerr, William.	Lethbridge	23 March, 1900
Kidd, Frederick	Calgary	14 June, 1900
Keith, John.	Fitzmaurice	14 August, 1900
Kowalczyck, Antoine.	St. Paul des Metis.	16 February, 1901
Kearns, William.	Qu'Appelle Station	26 August, 1901
Kohlruss, Johann.	Balgonie.	30 August, 1901
Kennedy, Edwin R.	Portal, N.D.	27 August, 1903
Kaldec, J. J.	Wetaskiwin.	18 April, 1904
Lyon, William.	Moffat.	5 September, 1900
Laidlaw, Robert.	Grenfell	24 December, 1900
Lapp, Charles T.	Alameda	20 April, 1901
Lacey, William R.	Calgary	10 October, 1902
Lamoureux, Alphonse.	Lamoureux.	18 December, 1902
Lewis, William C.	Wapella.	15 September, 1903
Livingston, John.	Carnduff	15 December, 1904
Macey, Charles R.	Oxbow	15 November, 1899
More, Robert.	Bredenbury	"
Moran, Austin.	Lethbridge	23 March, 1900
Morden, Phillip A.	Moosomin.	11 April, 1901
Marshall, Charles H.	Carnduff.	"
Mitchell, George A.	Abernethy.	9 September, 1901
Mulberry, David.	Spy Hill	13 September, 1901
Moulding, Charles.	Broadview	24 September, 1901
Mitchell, James A.	Oxbow	3 October, 1901
Minty, Charles J.	Ferndale	19 February, 1903
Morrow, James W.	Grenfell	26 February, 1903
Marshall, Frederick J.	Kamloops, B.C.	14 August, 1903
Mitchell, Samuel D.	Percy.	"
Moxon, Frederick I.	Sintaluta.	22 August, 1903
Morrison, John S.	Gleichen	24 September, 1903
Mayhew, W. H.	Whitewood.	8 April, 1904
Mortimer, Samuel M.	Strathcona	26 May, 1904
Munro, J. W.	Indian Head.	10 October, 1904
Matheson, Daniel.	Brookside.	19 October, 1904
Marshall, Gilbert.	Regina	10 November, 1904
McKay, Daniel.	Lethbridge	30 June, 1899
McBeth, William M.	Prince Albert.	28 May, 1900
McGee, Thomas.	Whitefish Lake.	14 June, 1900
McGuirl, John.	Moosomin	19 July, 1900
McDougall, John.	Regina	28 July, 1900
McEwen, Duncan.	"	29 September, 1900
McBride, William L.	Prince Albert	20 May, 1901
McInnis, Neil B.	Regina	21 June, 1901
McKay, Finlay.	"	"
McDonald, Allan.	"	7 September, 1901
McCurdy, John A.	Moosomin	3 February, 1902
McKenzie, John D.	Oxbow.	29 April, 1902
McFayden, John.	Wapella.	6 March, 1903
McConnell, William J.	Lethbridge	6 October, 1903
McClelland, W. E.	Grandview, Man.	15 March, 1904
McLafin, W. G.	Ponoka.	18 April, 1904
McEachern, D. V.	Battleford	20 May, 1904
McIntyre, John.	Calgary	28 October, 1904
Nimmons, Robert.	Lethbridge	23 March, 1900
Nesbitt, John.	Moose Jaw.	29 September, 1900
Neufeldt, Peter P.	Rosthern	20 November, 1900

SCHEDULE of Holders of Certificates of Qualification under The Steam
Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Second Class—Continued</i>		
Osment, Walter J.	Indian Head.	25 April, 1900
Omand, James.	Edmonton	13 May, 1903
Parcels, Timothy P.	Red Deer.	4 September, 1899
Papzant, Ernest M.	Edmonton	9 October, 1899
Pratt, George	"	"
Pearce, Abram.	"	28 May, 1900
Pajot, Jaques.	Duck Lake	29 September, 1900
Pendygrasse, John S.	Halcro	30 May, 1901
Porter, James	Wolseley	2 July, 1901
Partridge, Thomas E.	Sintaluta	24 September, 1901
Parke, John A.	Chnrchbridge.	1 October, 1902
Powers, Thos. E.	Strathcona	26 May, 1904
Reed, R. W.	Lethbridge	30 June, 1899
Richards, Henry J.	Cannmore	13 February, 1900
Ritchie, William J.	"	5 June, 1900
Rankin, Thomas H.	Banff	29 September, 1900
Rigby, William.	Tregarva	"
Robb, David M.	Grenfell.	9 May, 1901
Rice, John.	Calgary.	10 October, 1902
Rattray, Thomas	Edmonton	13 May, 1903
Rayner, Wm. J.	Indian Head	18 November, 1903
Roberts, W. B.	Ft. Saskatchewan.	18 April, 1904
Stapley, Tobias B.	Edmonton	4 September, 1899
Schatz, William H.	Strathcona	9 October, 1899
Shaw, Maltman W. S.	Midnapore.	1 December, 1899
Stafford, George	Lethbridge	23 March, 1900
Steven, James H.	Calgary	17 April, 1900
Sbinger, Chas.	Grenfell	25 April, 1900
Shannon, John W.	Prince Albert.	28 May, 1900
Stephenson, J. W.	Moose Jaw	13 December, 1900
Shirkie, Andrew S.	Grenfell	24 December, 1900
Stagg, George.	Calgary.	7 February, 1901
Steven, Alfred E.	"	"
Shelley, Henry J.	"	12 March, 1901
Scott, Wallace A.	Carlyle	29 May, 1901
Shea, Francis W.	Prince Albert.	30 May, 1901
Sloan, William.	Lethbridge	30 July, 1902
Sellars, Walter H.	Arcola	15 September, 1903
Symington, John F.	Willowbrook	30 September, 1903
Snelgrove, George L.	"	26 September, 1903
Shannon, James.	Calgary	6 November, 1903
Shackleton, Thomas A.	Kamloops, B.C.	14 November, 1903
Springstein, Cecil B.	Regina	19 December, 1903
Smith, Ira.	Indian Head.	17 September, 1904
Starkey, Geo L.	Ponoka	15 October, 1904
Smith, G. A.	Churchridge	21 October, 1904
Smyth, Barrows M.	Moose Jaw	10 November, 1904
Thompson, R. D.	Wolseley	13 November, 1899
Turner, Ornelo H.	Calgary	13 February, 1900
Toreson, Thomas	Wetaskiwin.	7 March, 1900
Tompkins, Peter.	Whitefish Lake.	27 November, 1900
Topp, Edron	Carnduff	6 May, 1902
Thompson, John.	Port Arthur, Ont.	30 August, 1902
Tulloch, A. J.	Broadview	6 March, 1903
Terry, William F.	Saskatoon.	15 May, 1903
Thompson, Oliver H.	Estevan	10 June, 1904

SCHEDULE of Holders of Certificates of Qualification under The Steam
Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Second Class—Continued</i>		
Tripp, Jas. A.	Regina	14 September, 1904
Telford, J. W.	Prince Albert	16 November, 1904
Verey, George W.	Prince Albert	28 May, 1900
Vance, George W.	Moosomin	11 April, 1901
VonWendel, Carl.	Calgary	6 November, 1903
VanHaast, Julius H.	Strathcona	5 November, 1904
Walker, J. B.	Lethbridge	30 June, 1899
Watson, Ernest P.	Strathcona	9 October, 1899
Walters, Bertrand.	Grenfell	25 April, 1900
Winter, Robert S.	Wapella	"
Workman, Walter R.	Oxbow	19 July, 1900
Wood, Charles E. D.	Macleod	28 July, 1900
White, James.	Canmore	5 September, 1900
Wiebe, William R.	Rosthern	20 November, 1900
White, William J.	Moose Jaw	13 December, 1900
Wright, Leslie.	Gainsborough	15 April, 1901
Wiggins, James T.	Oxbow	20 April, 1901
Wehsdale, Francis C.	Edmonton	21 June, 1901
Watson, Hugh C.	Oxbow.	3 September, 1901
Waldock, John G.	Medicine Hat.	18 August, 1902
Waterfield, Thomas A.	Yorkton	1 October, 1902
Weeks, Albert G.	Regina	6 June, 1903
Wallace, William.	North Portal.	15 September, 1903
Wood, John A.	Weyburn.	19 November, 1903
Watson, W. D.	Bankhead	19 December, 1904
<i>Third Class.</i>		
Aldons, Robert B.	Lorlie	29 September, 1899
Armstrong, Charles W.	Gainsborough	15 April, 1901
Adams, George A.	Carnduff.	17 April, 1901
Albertson, Andrew O.	Strathcona	25 June, 1901
Aikman, George.	Calgary	11 September, 1902
Andres, Gerhard J.	Rosthern	26 September, 1902
Anderson, David	Elmore	14 October, 1902
Anderson, William	Indian Head	19 February, 1903
Allan, Albert.	Edmonton	13 May, 1903
Alexander, Anthony	Duck Lake	13 June, 1903
Allison, Robert.	Pasqua	22 August, 1903
Anderson, Henry C.	Regina	16 September, 1903
Alexander, Andrew W.	Yorkton	30 September, 1903
Allan, Arthur	Edmonton	18 April, 1904
Adams, W. J.	Balgonie	15 July, 1904
Ashworth, J. E.	Moose Jaw	"
Allcock, Nelson T.	Pasqua	"
Ashcroft, Joseph.	Lethbridge	"
Black, Walter M.	Wolseley	29 September, 1899
Brown, Frank.	Indian Head.	"
Blatchford, Peter	Edmonton.	28 November, 1899
Bergeron, Joseph	Fort Saskatchewan.	28 May, 1900
Ballantyne, Archibald	Prince Albert	"
Brears, Edward	Clumber.	24 August, 1900
Burkman, John A.	Whitewood.	5 September, 1900
Beesley, John W.	Marlborough	13 December, 1900
Bonnycastle, Thomas.	Katepwe	24 December, 1900
Barnes, Zechariah H.	Verna	5 March, 1901
Burman, George W.	Wapella	29 August, 1901

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—Continued.

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Bushby, Joseph	Lumsden	7 September, 1901
Badley, James	Pense	9 September, 1901
Barber, Samuel R.	Wolseley	24 September, 1901
Burke, Alfred H.	Elmore	3 October, 1901
Boyce, H. F.	Qu'Appelle Station	21 November, 1901
Burman, Charles D.	Qu'Appelle Station	"
Bawtinheimer, H. E.	Red Deer	18 December, 1901
Bannerman, William	Red Deer	"
Billo, Joseph	Edmonton	"
Bernier, Alexis	Lameureux	"
Bastien, Henry	Prosperity	23 January, 1902
Brook, James	Moosomin	3 February, 1902
Brook, Edward	Fairville	18 August, 1902
Berlinguette, Alfred	Whitford	"
Breckenridge, Robert S.	Rosthern	25 August, 1902
Blair, John	Indian Head	"
Bossard, Walter W.	Weyburn	21 November, 1902
Beard, William W.	Moosomin	6 March, 1903
Barber, Richard	Wolseley	9 March, 1903
Burwell, Arthur P.	Edmonton	24 April, 1903
Berg, John	Fort Saskatchewan	13 May, 1903
Bolduc, Joseph	Beaumont	"
Bowers, Richard J.	Strathcona	"
Briggs, Marshall R.	Red Deer	"
Beal, Alonzo	Davidson	3 July, 1903
Boyles, Geo. H.	Moosomin	7 August, 1903
Bateman, William R.	Eastview	14 September, 1903
Bonar, Alfred	Moose Jaw	"
Buell, Charles W.	Lumsden	"
Brown, William	Broadview	16 September, 1903
Bishop, William F.	Alameda	"
Beaton, Norman	Gordon	"
Bricker, Menno C.	Okotoks	6 November, 1903
Brown, Robert S.	Lamoureux	15 January, 1904
Burbank, Lyle A.	Calgary	10 February, 1904
Billo, Adolphe	Canmore	14 March, 1904
Boden, J. T.	Indian Head	15 March, 1904
Bierwirth, J. E.	Meridian	8 April, 1904
Bailey, R. B.	Edmonton	18 April, 1904
Brenton, J. R.	Edmonton	"
Bell, Arthur	Manor	28 June, 1904
Brown, J. A.	Hicksdale	8 July, 1904
Blair, John	Balgonie	15 July, 1904
Brown, John	Moose Jaw	"
Bateman, Ralph	Eastview	"
Barber, Wm.	Moose Jaw	23 August, 1904
Brown, W. J.	Regina	14 September, 1904
Bell, Thos.	Indian Head	24 September, 1904
Blair, W. H.	Indian Head	"
Balfour, David	Bilcarres	"
Bettker, Christian	Lemberg	5 October, 1904
Bull, John T.	Regina	10 October, 1904
Bolduc, Peter	Beaumont	15 October, 1904
Bevington, G. E.	Strathcona	"
Boyce, John W.	Rossetti	19 October, 1904
Bell, Martin	Rocanville	22 November, 1904
Currie, Laughlin	Strathcona	9 October, 1899
Cameron, John	Edmonton	"
Clement, Lewis J.	Carnduff	15 November, 1899

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Cross, William	Crescent Lake	15 November, 1899
Cooper, Watt	Canmore	13 February, 1900
Carscadden, F. W.	Strathcona	7 March, 1900
Clements, Charles H.	Fairmeade	25 April, 1900
Chute, Clarence	Pasqua	15 October, 1900
Campbell, Thomas	Prince Albert	10 November, 1900
Clink, George J.	Lacombe	31 December, 1900
Campbell, Michael	Canmore	25 June, 1901
Campbell, John R.	Qu'Appelle Station	18 July, 1901
Christian, John E.	Prosperity	29 August, 1901
Chicard, Victor	Sintaluta	24 September, 1901
Cook, Thomas H.	Regina	23 November, 1901
Cruikshank, Charles	Red Deer	18 December, 1901
Clauson, John	Red Deer	23 April, 1902
Cudmore, Everard J.	Westview	7 August, 1902
Currie, William	Medicine Hat	18 August, 1902
Charvet, Eugene	Duck Lake	26 September, 1902
Currie, George D.	Regina	1 October, 1902
Chase, William	Wapella	10 October, 1902
Carefoot, William J.	Moosomin	"
Cameron, Malcolm G.	Dalesboro.	13 May, 1903
Cameron, Alexander	Carlyle	14 August, 1903
Currie, Archibald	Medicine Hat	22 August, 1903
Cargo, Hugh L.	Fort Qu'Appelle	"
Clancy, Jacob W. W.	Regina	14 September, 1903
Crawford, Alvy	Saskatoon	30 September, 1903
Chandler, Frederick W.	Fleming	6 November, 1903
Collard, John A.	Moose Jaw	20 January, 1904
Calhoun, Culver	Calgary	14 March, 1904
Curtis, W. W.	Carstairs	18 April, 1904
Coulter, Frank	Edmonton	"
Cunningham, J. E.	Ellerslie	"
Clark, W. A.	Edmonton	"
Christoph, Godfrey	Strassburg	31 March, 1904
Coleman, A. J.	Manor	28 June, 1904
Cockwell, R. T.	Balgonie	15 July, 1904
Cross, Israel	Arcola	"
Crawford, Oscar D.	Regina	22 August, 1904
Callin, F. O.	White-wood	5 October, 1904
Clearwater, Bert	Craik	10 October, 1904
Charette, Clifford	Beaumont	15 October, 1904
Cote, Joseph	Beaumont	"
Clark, John	Crescent Lake	21 October, 1904
Carruthers, J. A.	Calgary	28 October, 1904
Crichton, D. O.	Lethbridge	24 November, 1904
Coney, Thomas	Winlaw	15 December, 1904
Carpenter, David	Pincher Creek	4 December, 1904
Dash, Albert	Grenfell	29 September, 1899
Dixon, William	Sintaluta	"
Doan, John	Regina	5 September, 1900
Doman, Frederick	Moosomin	21 February, 1901
Dalrymple, Archy	Moose Jaw	8 August, 1901
Dargavel, A. M.	Wolseley	24 September, 1901
Downey, Jeremiah	Summerbury	27 August, 1902
Dyck, Francis G.	Hagne	26 September, 1902
Delap, Thomas	Frank	30 September, 1902
Dalgleish, Andrew	Moosomin	7 August, 1903
Donald, Alexander	Wolseley	22 August, 1903
Dorrell, Henry	Moose Jaw	"

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—Continued.

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Demele, August.	Qu'Appelle Station	3 September, 1903
DuBois, Roy C.	Dundurn	5 September, 1903
Dozoy, Charles.	Frank	30 September, 1903
Duncan, Thaddeus W.	Halbrite	10 October, 1903
Donnelly, J. M.	Indian Head	15 March, 1904
Dixon, F. L.	Oxbow	30 March, 1904
Dobbs, F. M.	Iowalta	18 April, 1904
Dilley, A. J.	Agricola	"
Druar, S. P.	Riviere Que Barre	"
Dubuc, Emile	Morinville	26 May, 1904
Dell, Ernest W.	Eastview	15 July, 1904
Dash, Chas.	Hillesden	26 August, 1904
Dixon, Wm.	Balcarres	24 September, 1904
DeJong, Cornelius	Balcarres	"
Dalager, Peter	Bienfait	16 November, 1904
Demourest, Byron	Carnduff	15 December, 1904
Ellerman, Emil	Hyde	13 February, 1900
Embury, J. R.	Wapella	29 September, 1900
Erickson, John	Wetaskiwin	23 October, 1900
Engelland, Frederick C.	Edenwold	27 August, 1901
Ellis, John	Weldon	15 October, 1901
Edgington, Guy	Red Deer	18 December, 1901
Egaard, Anton F.	Oxbow	13 October, 1902
Eyre, William F.	Regina	13 May, 1903
Emberton, Julius	Prince Albert	23 June, 1903
Evarts, Lucius P.	Calgary	14 August, 1903
Edberg, Elof O.	Langenburg	4 November, 1903
Evarts, Philo	Banff	14 March, 1904
Erickson, David	Kennedy	14 September, 1904
Epp, P. C.	Lovell	16 November, 1904
Fotheringham, James	Grenfell	29 September, 1899
Fletcher, Alexander	Moose Jaw	"
Faulkner, Gilbert W.	Grenfell	25 April, 1900
Fitzgerald, Gerald D.	Belle Prairie	"
Forsyth, George	Prince Albert	28 May, 1900
Ferguson, William	Moffat	5 September, 1900
Finn, James E.	Fort Qu'Appelle	23 November, 1900
Fowler, James Park	Moose Jaw	13 December, 1900
Flett, John	Flett's Springs	30 May, 1901
Friesen, Isaac P.	Rosthern	"
Fryn, Samuel	Coalfields	28 June, 1901
Fristad, George	Gainsborough	27 August, 1901
Fleming, Samuel	Wolseley	24 September, 1901
Flack, Samuel	Red Deer	18 December, 1901
Findlay, James F.	Leduc	"
Ferguson, William H.	Oxbow	28 April, 1902
Fair, Francis W.	Medicine Hat	18 August, 1902
Freed, Joseph H.	North Portal	30 August, 1902
Forge, James	Moose Jaw	30 September, 1902
Fergus, David M.	Yorkton	1 October, 1902
Fraser, William	Strathcona	13 May, 1903
Foster, William W.	Red Deer	"
Falkingham, Joseph	Hanley	14 August, 1903
Foster, John T.	Moose Jaw	1 September, 1903
Foulkard, Albert F.	Pense	14 September, 1903
Fieseler, William	Langenburg	6 October, 1903
Friesen, Jacob	Rosthern	16 October, 1903
Fraser, Charles	Okotoks	6 November, 1903

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued.</i>		
Fletcher, George C.	Pense	27 November, 1903
Fotheringham, David	Grenfell	15 March, 1904
Fallis, J. J.	Lumsden	31 March, 1904
Fluker, W. R.	Fort Saskatchewan	18 April, 1904
Fock, A. G.	Indian Head	14 September, 1904
Fisher, Carl	Drinkwater	15 September, 1904
Getty, Samuel	Moose Jaw	29 September, 1899
Gagnon, Alfred	St. Albert	28 May, 1900
Gray, William	Clumber	24 August, 1900
Godson, Charles	Fairville	29 September, 1900
Grue, Theodore S.	Bittern Lake	7 December, 1900
Gray, Joseph	Qu'Appelle Station	18 July, 1901
Gravy, John	Hyde	29 August, 1901
Gardiner, C. T.	Balgonie	30 September, 1901
Gedge, William J.	Moosomin	14 February, 1902
Gaetz, James F.	Red Deer	23 April, 1902
Gadder, James	Grenfell	25 August, 1902
Giesbrecht, Jacob	Waldheim	26 September, 1902
Giles, William A.	Rosthern	"
Gray, William, Jr.	Clumber	30 September, 1902
Gillis, Murdoch	Whitewood	10 October, 1902
Gobel, Valentine	Hyde	24 October, 1902
Gougeon, Navin	Saskatoon	29 October, 1902
Guess, Herbert	Saltoun	19 February, 1903
Grad, Adam	Balgonie	14 August, 1903
Gilmour, John G.	Moose Jaw	22 August, 1903
Gordon, Sandy	Caron	29 September, 1903
Gummow, John P.	Estevan	10 October, 1903
George, John	Kamloops, B.C.	13 January, 1904
Griffiths, W. H.	Anthracite	14 March, 1904
Giddings, Thos.	Calgary	"
Graham, D. M.	Indian Head	15 March, 1904
Grigat, John	Leduc	18 April, 1904
Goebel, H. C.	Edmonton	"
Galpin, Chas. W.	Regina	7 July, 1904
Hailey, William	Wolseley	29 September, 1899
Hewer, Jessey J.	Strathcona	9 October, 1899
Halfin, Mark	Wolseley	25 April, 1900
Harrold, David	Edmonton	28 May, 1900
Hawkes, A. G.	Broadview	5 September, 1900
Heffner, Frank	Bruederheim	15 November, 1900
Harnus, Peter W.	Rosthern	20 November, 1900
Holden, J. A.	Strathcona	31 December, 1900
Hastings, James	Indian Head	24 January, 1901
Hargest, Richard	Edgeley	18 July, 1901
Holden, Samuel O.	Indian Head	26 August, 1901
Hubbs, Annet	Sintaluta	24 September, 1901
Hourie, James	Prince Albert	15 October, 1901
Hober, John W.	Ponoka	7 January, 1902
Hill, Edmund	Oxbow	28 April, 1902
Houghton, Charles N.	Carnduff	6 May, 1902
Hill, Alfred	Oxbow	"
Halliday, Ninian	Gainsborough	"
Hill, Albert C. M.	Grenfell	25 August, 1902
Hogg, Andrew G.	Carnoustie	10 October, 1902
Harris, Edward S.	Star	18 December, 1902
Hudson, Arthur C.	Edmonton	6 January, 1903
Hubbs, Charles	Sintaluta	19 February, 1903

SCHEDULE of Holders of Certificates of Qualification under The Steam
Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued.</i>		
Hannah, George W.	Sintaluta	26 February, 1903
Havegaard, Rasmus T.	Whitewood	6 March, 1903
Hehsdoerfer, Joseph	Edmonton	13 May, 1903
Heatley, William	Beaumont	"
Hopkins, James E.	Moose Jaw	22 August, 1903
Harrop, William	Indian Head	"
Henderson, George A.	Halbrite	27 August, 1903
Harold, Christopher	Caron	14 September, 1903
Hodgson, Robert C.	Battleford	"
Hodge, John	Carievale	16 September, 1903
Huck, Anton, Jr.	Qu'Appelle Station	17 October, 1903
Harrison, Frank H. O.	Pense	24 November, 1903
Haney, Sylvester	Lacombe	28 January, 1904
Hayter, Benjamin	Oxbow	13 February, 1904
Hurlhurt, Wm.	Arcola	30 March, 1904
Hilts, J. A.	Moosomin	"
Hine, A. J.	Glen Ewen	8 April, 1904
Hougstol, Anton	Wetaskiwin	18 April, 1904
Harrold, John	Edmonton	"
Hamilton, Geo.	Battleford	1 June, 1904
Honey, James, Jr.	Maryfield	28 June, 1904
Hutchison, John R.	Cannington Manor	"
Houston, R. W.	Prince Albert	15 July, 1904
Harrison, Jackson	St. Mary's	19 July, 1904
Heminint, Herman	Stoughton	30 September, 1904
Hoyt, Ezra M.	Moosomin	7 October, 1904
Horsburgh, Andrew C.	Rouleau	10 October, 1904
Hutchings, H. E.	Edmonton	15 October, 1904
Hunter, Herman	Moosomin	19 October, 1904
Hardaker, John W.	Fairlight	"
Hewgill, F. M.	Moosomin	"
Ingram, Isaac	Strathcona	9 October, 1899
Imeson, George	Stony Plain	18 December, 1901
Ireton, Henry W.	Moosomin	19 February, 1903
Johnstone, Thomas	Qu'Appelle Station	29 September, 1899
James, William H.	Whitewood	15 November, 1899
Jackson, Charles	Calgary	19 July, 1900
James, Charles W.	Whitewood	11 April, 1901
Jones, Robert	Moose Jaw	8 August, 1901
Johnstone, Edward	Chickney	26 August, 1901
Joyner, Charles A.	Bentley	2 October, 1901
James, Dunham D.	Didsbury	1 November, 1902
Jevne, Ivan	Wetaskiwin	13 February, 1903
Jamerson, Johnston	Ponoka	24 April, 1903
Jones, Frank	Summerberry	22 August, 1903
Johnson, Conrid.	Red Deer	29 August, 1903
Jones, Daniel E.	Alameda	16 September, 1903
Jarrat, Edward	Strathcona	18 April, 1904
Junker, Maxmillian	Balgonie	19 July, 1904
Jeavous, Harry J.	Whitewood	28 September, 1904
Jameson, Chas. W.	Ponoka	15 October, 1904
Krienke, C. F.	Wolseley	29 September, 1899
King, John	Regina	17 October, 1899
Krienke, Albert	Ellisboro.	25 April, 1900
Kerr, William G.	Moosomin	29 September, 1900
Krause, Otto	Innisfail	1 October, 1901
Ketcheson Theodore	Moosomin	18 April, 1902

SCHEDULE of Holders of Certificates of Qualification under The Steam
Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Klippinstein Abraham	Rosthern	23 June, 1902
Klassen, John S.	Hague	26 September, 1902
Klaassen, Jacob C.	Rosthern	1 October, 1902
Kruppa, Jos.	Kaposvar	10 October, 1902
Klein, Oscar A.	Prince Albert	"
Kennedy, Daniel	Sintaluta	22 August, 1903
Kay, Edwin W.	Fairville	14 September, 1903
Koch, Carl	Balgonie	"
Kemp, Thomas D.	"	"
Kanngiesser, Simon	Lacombe	18 April, 1904
Kelsey, A. F.	Clover Bar	"
Kadles, J. J.	Wetaskiwin	"
Keil, Walter L.	Lumsden	15 July, 1904
Kennedy, Alex	Indian Head	24 September, 1904
Krinke, Otto	Lemberg	5 October, 1904
Kirkpatrick, W. A.	Regina	15 October, 1904
Knapp, Henry H.	Edmonton	"
Kawin, Johann	Langenburg	21 October, 1904
Lang, James	Okotoks	19 July, 1900
Lamourenx, Alcibiade	Lamourenx	15 November, 1900
Lewis, William H.	Innisfail	18 December, 1901
Lee, George	Edmonton	"
Loval, Lawrence	Onion Lake	12 April, 1902
Louiselle, Jerry	Red Deer	23 April, 1902
Lundy, William T.	Innisfail	"
Leucizek, Adam	Neudorf	30 July, 1902
Lynch, Alexander W.	Blairmore	18 August, 1902
Loewen, Isaac C.	Rosthern	26 September, 1902
Livingstone, John N.	Indian Head	19 February, 1903
Lyseng, Knut K.	Bittern Lake	7 August, 1903
Linnell, Albert W.	Summerberry	22 August, 1903
Lindberg, Erick	Calmar	18 April, 1904
Langhausen, Jacob	Fort Saskatchewan	"
Langhausen, Peter	"	"
Lee, Andrew E.	Wetaskiwin	"
Lyall, Peter	North Portal	11 May, 1904
Lee, Wm. D.	Yorkton	2 August, 1904
Lehman, Harrison	Edmonton	15 October, 1904
Morkin, John	Dunbow	1 December, 1899
Martin, Magloire Z.	Morinville	28 May, 1900
Merrill, Henry R.	Carnduff	19 June, 1900
Murray, James A.	Moosomin	29 September, 1900
Merchant, John	Lumsden	30 November, 1900
Mitchell, Timothy W.	Red Deer	7 February, 1901
Montgomery, James D.	Fleming	11 April, 1901
Melton, John W.	Prince Albert	30 May, 1901
Mather, E. M.	Calgary	6 June, 1901
Martin, F. H.	Moose Jaw	8 August, 1901
Macdonald, W. P. C.	Poplar Grove	29 August, 1901
Millham, Oliver C.	Hazelcliffe	"
Mackenzie, John D.	Dalesboro	2 October, 1901
Muth, John	Ebenezer	27 November, 1901
Morden, Jacob R.	Lacombe	18 December, 1901
Moore, John R.	Innisfail	"
Munier, Wilfred	Morinville	"
Miller, Phillip	Stony Plain	"
Meneely, William	Edmonton	"
Mikesthus, Michael	Leduc	"

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Morkeberg, D.	Innisfail.....	23 April, 1902
Moore, David	Gainsborough	6 May, 1902
Myllymaki, Jacob	New Finland	18 August, 1902
Mayhew, William H.	Broadview.....	25 August, 1902
Martens, Peter	Hague	26 September, 1902
Meilicke, Karle	Dundurn.....	30 September, 1902
Miller, William J.	Kirkpatrick	1 October, 1902
Marten, William A.	Broadview.....	4 October, 1902
Mortimer, Samuel.....	Strathcona	18 December, 1902
Mallery, William A.	Fleming.....	19 February, 1903
Moore, Homer S.	Dongola.....	"
Mitchell, David.....	Oxbow	13 May, 1903
MacCauley, James A.	Rabbit Hill	10 June, 1903
Morrison, James A.	Aberne:hy.	22 August, 1903
Martin, Henry E.	Regina.	31 August, 1903
Munroe, John A.	Rouleau.....	3 September, 1903
Morris, George E.	Regina.	17 September, 1903
Meilicke, Emil.	Dundurn.....	24 September, 1903
Meilicke, Otto F.	Dundurn.....	"
Mik, Frank.....	Whitewood.. . . .	30 September, 1903
Mitchell, Edward.....	Pasqua.....	24 November, 1903
Mooney, W. S.	Lacombe	18 April, 1904
Mayer, Ferdinand.....	Edmonton	"
Murray, A. A.	St. Albert	"
Meunier, J. H.	Morinville.	"
Meredith, Wilbert.....	Edmonton	"
Mooney, G. K.	Regina.	15 July, 1904
Matheson, Wm. A.	Moose Jaw.....	"
Millar, Alex D.	Regina.	"
Murison, Wm.	Carlyle	"
Meilicke, O. F.	Dundurn.....	14 September, 1904
Melton, Earl.....	Prince Alhert.....	"
Mathews, Geo.	Strathcona	15 October, 1904
Morgan, Oscar.....	"	"
Maifield, W. H.	Namoo.	"
Malpas, David.....	Churchbridge.....	21 October, 1904
Maserek, J. J.	Crescent Lake.....	"
Moerike, E. A.	Milestone	28 October, 1904
Mead, Francis A.	Pincher Creek.....	30 December, 1904
McKernan, James	Edmonton	9 October, 1899
McKen, James.....	Yorkton	15 October, 1900
McDonnell, Finley.....	The Sturgeon	23 October, 1900
McLellan, John.....	Fort Saskatchewan.....	15 November, 1900
McLeod, Millage J.	"	"
McKellar, John.....	"	"
McFadyen, Neil.....	Red Jacket.....	29 August, 1901
McKinlay, Murdoch.....	Stony Plain.....	18 December, 1901
McFadyen, John.....	Wapella.....	23 January, 1902
McLean, Archibald.....	Lethbridge.....	18 August, 1902
McDermid, Malcolm.....	Indian Head.....	"
McLellan, John.....	Fort Qu'Appelle.....	25 August, 1902
McPhee, John.....	Lumsden.....	18 September, 1902
McDonald, Peter.....	Wapella.....	6 March, 1903
McKinnon, Donald.....	Earlswood	"
McLean, Alexander M.	Calgary	9 March, 1903
McLaren, John P.	Percy	30 March, 1903
McFarlane, Lewis.....	Carievale	24 April, 1903
McGarry, Fred.....	Lacombe.....	"
McDonald, William.....	Penhold.	13 May, 1903

SCHEDULE of Holders of Certificates of Qualification under The Steam
Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
McConnell, James R.	Red Deer	13 May, 1903
McKen, John, Jr.	Yorkton.	6 June, 1903
McCartney, Claude	Indian Head	22 August, 1903
McGuire, Lee	Alameda	5 September, 1903
McElroy, Harmond H.	Arcola	16 September, 1903
McCartney, George R.	Moose Jaw	17 October, 1903
McIntyre, John	Calgary	6 November, 1903
McCorkindale, Harvey	Indian Head	15 March, 1904
McGregor, Samuel	Oxbow	30 March, 1904
McConnell, J. A.	Carnduff	8 April, 1904
McCauley, Alex.	Edmonton	18 April, 1904
McLean, J. A.	Star.	"
McDiarmid, A. D.	Edmonton.	"
McKin, Nelson W.	"	"
McArthur, Hector	Oxbow	18 May, 1904
McFadyen, John R.	Strathcona	3 June, 1904
McFarlane, Bernard	Battleford.	30 June, 1904
McMillan, G. A.	Belle Paline	15 July, 1904
McDonald, Malcolm	Mountain Mill	14 September, 1904
McIvor, Geo.	Saskatoon.	"
McCann, Dennis	"	"
McCann, Frank	"	"
McNabb, Alex.	Birch Hills	"
McCall, Jas. F.	Coleman	24 September, 1904
McGillivray, Daniel	Pense	10 October, 1904
McCarthy, J. R.	Saskatoon.	13 October, 1904
McLeod, D. J. W.	Strathcona	15 October, 1904
McPherson, M. R. R.	Red Jacket	19 October, 1904
Nelson, Frank	Wetaskiwin	30 May, 1900
Nixon, T. H.	Wapella	29 September, 1900
Neufeldt, D. D.	Waldheim	20 November, 1900
Nixon, Kendal	Wapella	24 December, 1900
Nichol, David	Innisfail	18 December, 1901
Noyes, Daniel C.	St. Albert	"
Nilsson, Anders	Ohlin	11 September, 1902
Neufeld, Hermon	Hague	26 September, 1902
Neufeld, D. P.	Rosthern	"
Neufeld, J. M.	"	"
Nichols, James J.	Edmonton	13 May, 1903
Niven, John	Lethbridge	6 October, 1903
Neufeld, Abram J.	Rosthern	"
Nixon, John	Wapella	19 October, 1904
Ottewell, Richard P.	Edmonton	9 October, 1899
Olson, Edwin L.	Prince Albert	4 October, 1902
Ovington, John	Moosomin	10 October, 1902
Oliver, Ernest H.	Calgary	6 November, 1903
Omand, John	Edmonton	18 April, 1904
Olson, H. B.	Ellerslie	"
Prince, Joseph A.	Battleford	11 July, 1899
Peirce, George J.	Red Deer	8 March, 1900
Pateuan, George	Welwyn	30 May, 1900
Park, Richard P.	Maple Creek	29 September, 1900
Pearce, James	Edmonton	23 October, 1900
Peters, Jacob	Osler	20 November, 1900
Perkins, William	Kenlis	24 December, 1900
Pinney, J. D.	Oxbow	24 September, 1901
Prentice, Charles W.	Wolseley	3 October, 1901

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—Continued.

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Perry, M. Truman.....	Alameda.....	15 October, 1901
Putnam, Albert E.....	Edmonton.....	18 December, 1901
Powell, James A.....	".....	".....
Pearce, William.....	".....	23 April, 1902
Pugh, John.....	Calgary.....	".....
Pimm, John.....	Lethbridge.....	18 August, 1902
Peters, Frank A.....	Hague.....	26 September, 1902
Peterson, William.....	Yorkton.....	1 October, 1902
Pachal, Rudolph.....	Ebenezer.....	30 March, 1903
Powers, Thomas E.....	Strathcona.....	13 May, 1903
Pullshiy, William.....	Star.....	23 June, 1903
Peterson, Alfred T.....	Carnduff.....	5 September, 1903
Penner, Abraham.....	Rosthern.....	16 October, 1903
Porteous, W. M.....	Loon Creek.....	14 March, 1904
Pallesen, Peter.....	Calgary.....	".....
Piper, F. E.....	Red Deer.....	18 April, 1904
Parke, Norman G.....	Churchbridge.....	30 September, 1904
Plett, Isaac B.....	Lemberg.....	5 October, 1904
Parker, R. J.....	New Hastings.....	19 October, 1904
Peck, A. J.....	Crescent Lake.....	21 October, 1904
Ramsay, David.....	Winnipeg.....	1 August, 1899
Russell, Alexander B.....	Regina.....	29 September, 1899
Robinson, John.....	Edmonton.....	9 October, 1899
Ritchie, Charles.....	Cut Arm.....	15 November, 1899
Ritchie, James.....	Saltcoats.....	24 August, 1900
Rutherford, John.....	Medicine Hat.....	29 September, 1900
Ross, Thomas G.....	Edmonton.....	15 November, 1900
Rattray, Archie B.....	Edmonton.....	15 December, 1900
Roberts, William B.....	Beaver Hills.....	7 February, 1901
Reynolds, James J.....	Gainsborough.....	7 May, 1901
Rodgers, William L.....	Qu'Appelle Station.....	18 July, 1901
Rorison, Hugh H.....	Moose Jaw.....	8 August, 1901
Robertson, Alexander.....	Benbecula.....	29 August, 1901
Reed, James H.....	Yorkton.....	27 November, 1901
Reeve, Lewis H.....	Moosomin.....	18 April, 1902
Ross, William, A.....	Milestone.....	7 August, 1902
Rees, Iltd.....	Wolseley.....	25 August, 1902
Regier, Henry W.....	Rosthern.....	26 September, 1902
Rafie, Andrew.....	Bon Accord.....	2 October, 1902
Ryan, James.....	Wetaskiwin.....	22 October, 1902
Reynolds, John.....	Yellow Grass.....	18 November, 1902
Rose, Wallace.....	Prince Albert.....	6 June, 1903
Richards, Henry.....	Balcarres.....	22 August, 1903
Reimer, John F.....	Osler.....	30 September, 1903
Reddemann, Herman.....	Estevan.....	10 October, 1903
Rogers, F. A.....	Glen Ewen.....	30 March, 1904
Redeg, Valentine.....	Lacombe.....	18 April, 1904
Rivet, Arthur.....	Morinville.....	26 May, 1904
Rattray, Thos. A., Jr.....	Edmonton.....	".....
Robson, Robt.....	Estevan.....	7 July, 1904
Rogers, Geo.....	Yorkton.....	23 July, 1904
Ramsay, Jas.....	Coleman.....	7 October, 1904
Read, Nicholas R.....	Fairville.....	10 October, 1904
Rooke, J. M.....	Dalrymple.....	20 October, 1904
Smith, Gavin G.....	Battleford.....	11 July, 1899
Stadelbauer, Simon.....	Spruce Grove.....	18 September, 1899
Smith, N. T.....	Moose Jaw.....	29 September, 1899
Smith, James W.....	Moose Jaw.....	".....
Stewart, Thomas H.....	Strathcona.....	9 October, 1899

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Sanders, S. B.	Grenfell.	1 November, 1899
Smith, William F.	Athabasca Landing	28 November, 1899
Shaw, John Y.	Midnapore	1 December, 1899
Stine, Frank.	Hyde	13 February, 1900
Stein, Andrew	Tiree	"
Saunders, Elias T.	Lethbridge	23 March, 1900
Steele, William L.	Oxbow	19 July, 1900
Snider, John B.	Okotoks	"
Steffes, Ferdinand.	Morinville.	15 November, 1900
Steffes, Joseph	Morinville.	"
Stine, Fred	Tiree	12 December, 1900
Stephens, Charles	Saltoun.	24 December, 1900
Schlegel, Frank	Duhamel	26 January, 1901
Smith, Alfred A.	Prince Albert	30 May, 1901
Shaw, Ezra.	Davin	29 August, 1901
Spooner, Francis W.	Red Deer Hill.	7 September, 1901
Stewart, Archie.	Edmonton.	"
Stulz, Frank.	St. Albert.	18 December, 1901
Simpson, Robert N.	Edmonton.	"
Sollitt, John H.	Strathcona	"
Siemens, Peter	Anthracite.	18 January, 1902
Sickavitch, Jah.	Grenfell.	15 March, 1902
Smith, Samuel W.	Leduc.	23 April, 1902
Size, Francis W.	Whitewood.	28 June, 1902
Smith, George H.	Boharm.	7 August, 1902
Swartz, Jay.	Tregarva	25 August, 1902
Strauss, Abram.	Rosthern	11 September, 1902
Shantz, Jeremiah B.	Didsbury	1 November, 1902
Stewart, John A.	Red Deer	24 November, 1902
Still, William.	Vegreville.	18 December, 1902
Stewart, James A.	Beaver Hills.	"
Strom, Theodore	Calgary.	9 March, 1903
Shields, William K.	Strathcona	13 May, 1903
Simonson, Henry	Northern	6 June, 1903
Smith, Larnet E.	Ponoka	13 July, 1903
Smith, Henry T.	Kenlis	22 August, 1903
Soderlund, Oscar.	Carnduff	16 September, 1903
Stradlund, Eric.	Percival	"
Surgeson, Peter	Qu'Appelle Station.	23 October, 1903
Storey, John W.	Coalfields.	4 November, 1903
Springstein, Cecil B.	Regina	19 December, 1903
Sim, John	Grenfell.	15 March, 1904
Simonin, L. L.	Wolseley.	"
Scott, Robt.	Creelman	23 July, 1904
Shearer, F. B.	Carlton	14 September, 1904
Smith, H. B.	Moose Jaw	15 October, 1904
Smith, J. W.	Moose Jaw	"
Schatz, Robert	Strathcona	"
Swift, W. T.	Edmonton.	"
Stephenson, C. H.	Drinkwater.	28 October, 1904
Schiefner, F. L.	Milestone.	"
Sturgill, Chas. E.	Puckahn	21 November, 1904
Thompson, Charles K.	Wolseley.	29 September, 1899
Thompson, Hugh.	Moose Jaw	"
Trimble, H. W.	Red Deer.	18 December, 1901
Taylor, James A.	Indian Head.	17 January, 1902
Thompson, Edmund H.	Grenfell	25 August, 1902
Thurlby, Fred.	Indian Head.	30 August, 1902
Townsend, Russell C.	Canmore	20 October, 1902

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Thomas, C. L. G.	Glen Ewen	13 May, 1903
Thompson, Luke D.	Alameda	14 August, 1903
Ternan, J. Henry	Bobarrin	22 August, 1903
Turner, Leonard J.	Gleichen	6 November, 1903
Terry, Peter	Okotoks	"
Trippel, Friedrich	Rosthern	13 January, 1904
Turnbull, Robt.	Strathcona	18 April, 1904
Townsend, Leon E.	Davidson	15 July, 1904
Tucker, G. H.	Balgonie	19 July, 1904
Trussler, A. E.	Highland Park	27 September, 1904
Taylor, Richard	Moosomin	19 October, 1904
Thomson, A. C.	Dunleath	21 October, 1904
Utas, Pete	Wetaskiwin	13 February, 1903
Unbach, William	Spruce Grove	13 May, 1903
Vogel, William	Strathcona	9 October, 1899
Van Meter, Charles E.	Millet	18 December, 1901
Vigar, William J.	Whitewood	25 August, 1902
Vanacker, Louis	St. Albert	13 May, 1903
Vidal, James A.	Katepwe	22 August, 1903
Witmer, Abram M.	Strathcona	9 October, 1899
Wilson, J. B.	Carnduff	19 July, 1900
Wilson, James E.	Calgary	"
Welk, D. A.	Rosthern	20 November, 1900
Wiebe, Heinrich P.	Hague	30 May, 1900
Wilson, William J.	Indian Head	26 August, 1901
Ward, William T.	Grenfell	29 August, 1901
Werner, Thomas J.	Carlyle	13 September, 1901
Wulff, Nick	Edmonton	18 December, 1901
Wilson, Richard F.	Carievale	6 May, 1902
Wiebe, Henry K.	Rosthern	23 June, 1902
Walker, Robert	Edmonton	18 August, 1902
Wyatt, William R.	Drinkwater	18 September, 1902
Woods, Thomas	Wapella	10 October, 1902
Walker, Thomas	Coalfields	21 October, 1902
Wilcott, Joseph F.	Manor	24 October, 1902
Wood, John J.	Gainsborough	10 November, 1902
Wickham, William S.	Brookside	6 March, 1903
Woolsey, William	Carnduff	5 June, 1903
Wagman, Wendelin	Qu'Appelle Station	3 July, 1903
Waddingham, John	Indian Head	18 September, 1903
Weder, Frank	Beaver Hills	28 October, 1903
White, William E.	Indian Head	7 December, 1903
Wells, Charley	Rosenroll	18 April, 1904
Winn, Wm. S.	Moose Jaw	15 July, 1904
Willock, Robt. G.	Willocks	"
Weaver, Lee	Redvers	28 July, 1904
Walker, W. J.	Broadview	13 October, 1904
Wardrop, John L.	East Clover Bar	15 October, 1904
Wilson, J. H.	Prince Albert	18 October, 1904
Wright, Geo. W.	Calgary	28 October, 1904
Westcott, Edward	Whitewood	17 January, 1904
Will Lewis	Bankhead	31 January, 1904
Young, Arthur	Banff	14 March, 1904
Young, Geo.	Brancepeth	14 September, 1904
Zuehlke, F. C.	Urquhart	18 December, 1901

ACCOUNTANT'S BRANCH.

Staff	<div style="display: inline-block; vertical-align: middle;"> <div style="display: inline-block; vertical-align: middle;">{</div> <div style="display: inline-block; vertical-align: middle;"> 1 accountant. 1 assistant accountant. 1 clerk. </div> </div>
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In the former part of the report reference was made to the expenditure incurred by this department during the past six years from 1899 to 1904 inclusive. The following statement will help to illustrate the amount of work done by this branch of the department during the year:

Total amount voted for public works		\$611,500 00
Total amount expended		611,419 50
Number of accounts examined, certified and passed to Treasury Department for payment	5,677	
Amount collected as departmental revenue and paid to credit of general revenue		12,198 37
Amount received on account of Large Local Improvement Districts and deposited to trust accounts		141,112 71
Number of accounts for work in Large Local Improvement Districts examined and passed for payment	846	
	6,523	
Number of cheques issued in payment of accounts in Large Local Improvement Districts	2,300	
Amount received in payment overdue taxes in Small Local Improvement Districts and paid through trusts account to proper districts		26,136 37
Number of cheques issued do	2,467	
Amount received in payment of taxes in school districts and forwarded to districts		13,618 05
Number of cheques issued	1,600	
Total cheques ..	6,367	
Total amount dealt with through books of department during year		\$804,485 00

As already stated, the sum of \$239,197.77 more than last year was expended during 1904, the total amount dealt with through the books of the department being \$804,485.00, or an increase of \$398,085.00 over the amount of work handled in 1903.

By way of explanation it might be stated that the apparent decrease from \$14,148.13 to \$12,128.37 in the amount of departmental revenue is rather misleading, as in 1903, \$3,000.00 received from the Dominion Government on account of reimbursements for works performed by this department was included in departmental revenue. In view of this fact, the actual departmental revenue would increase during 1904 by something over \$1,000.00.

Administration and Supervision.

As in the previous reports under this heading, information was given to show the cost of supervision and inspection of public works. The cost of superintendence and inspection was 1.20% in 1903, and notwithstanding the increase in work and the additional assistance it had fallen to 1.02% this year. The cost of administration and supervision was 3.30% in 1903, and this year it was 4.49%. The increase is accounted for by the cost of local improvement administration being added to cost

of the regular staff, which was not done heretofore. Providing the local improvement staff expenditure was omitted the cost of administration and supervision would be 3.03%.

The subjoined statement will show the total amount dealt with cost of staff, percentage of cost of administration, amount expended on works requiring superintendence and inspection and percentage of cost of such inspection.

Total amount dealt with by the department during the year as shown by foregoing statement	\$804,485 00
Total expenditure for departmental staff	24,393 84
Percentage of cost of administration	3 03
Percentage of cost of administration including local improvement staff	4 59
Amount expended on dams, ferries, maintenance bridges roads and other public works requiring superintendence and inspection	338,527 17
Amount expended for superintendence and inspection ..	3,475 73
Percentage of cost for superintendence and inspection ..	1 02

The low cost of administration and supervision, and for superintendence and inspection, has been due in a great measure to efficient administration of departmental affairs and not to any decrease in salaries of the staff, which on the contrary, have been increased.

SURVEYS BRANCH.

Staff	{ Directors of Surveys 3 clerks and stenographers 9 district surveyors and engineers
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REGINA, *January 31st, 1905.*

JOHN STOCKS, ESQ.,

Deputy Commissioner of Public Works,
Regina, Assa.

SIR,—I have the honour to report as follows regarding the work in the surveys branch during the past year.

The office work in connection with this branch consists largely of preparing instructions for the district surveyors and engineers, receiving and examining their returns, filing plans in the Land Titles office and the Department of the Interior at Ottawa, examining titles received for the roadways according to said plans and settling claims to compensation on account of lands required for right-of-way and damage to private property affected by the surveyed trails and drains.

The statement below will give an idea of the documents filed in the department and also show the nature of the work done during the year.

Surveys carried forward from 1903	386
Surveys requisitioned for during 1904	465
Surveys for which instructions were issued	580
Surveys completed	382
Plans received and recorded	274
Field books received and recorded	28
Preliminary agreements for right of way received and recorded	466
Transfers received and recorded	169
Certificates of titles received and recorded	422
Amount paid for right of way	\$15,848.71

Average price per acre.....	\$5.00
Miles of road allowance for which applications to lease have been received.....	130
Number of applications.....	61
Miles leased, renewals 163, new leases 35, total.....	198
Number of payments made in settlement of claims to compensation for right of way on account of surveyed roads and drains.....	467
Number of owners written under Ordinance.....	233
Number of owners written under Ordinance, second time, (on reconsideration).....	35
Number of owners accepting second ruling.....	32
Number of these cases unsettled.....	10
Appeals to arbitration.....	1

After the amendment to The North-West Territories Act was passed in 1902, vesting the land required for surveyed roads in the Crown, on filing a copy of the plans in the Land Titles office, the practice of securing transfers from the owners was abandoned, it being thought that the land was vested in the Crown when the plans were deposited with the several registrars. On a closer investigation, however, it was found that in some of the Land Titles offices the plans were not even given a day book number and therefore could not be said to be *filed* in any sense of the word, and when action by the registrars was insisted upon, it was claimed by them that The Land Titles Act and The North-West Territories Act conflicted regarding road plans and further action was refused. When the matter was further followed, it was found that the real cause of delay was lack of assistance to do the necessary work in connection with the filing of these plans, which difficulty was overcome by placing a clerk paid by this department, in the Land Titles offices at Regina and Calgary, the Land Titles office at Battleford having very little of our work to do, while at Prince Albert and Edmonton it was taken hold of with a strong hand and brought up to date, or nearly so, with their own staffs early in the year, thus placing themselves in a position to deal with road plans as they are sent to them in future. In October the Department of the Interior agreed to pay the salary of our clerk in the Regina office, but we continued to retain the one in the Calgary office to the end of the year and it is to be hoped that their services in both offices will be continued at least until all back work is closed up. The clearing up of the old work has enabled us to settle many old claims to compensation and a decided improvement is noticeable in the tone of the correspondence reaching the department from owners of lands affected by road surveys, and it is expected that during the first six months of 1905 the greater part of the outstanding claims will be settled.

A word of explanation might be given regarding the amendment of The Public Works Ordinance in 1903, whereby owners dissatisfied with the Commissioner's ruling as to their claims can submit the matter to arbitration. If it is considered that the amount offered by the Commissioner is not sufficient the owner may ask for a reconsideration, and if still dissatisfied with the second offer, steps may be taken to submit the matter to arbitration. Where the claims of the owner are considered reasonable by the Commissioner payment is made in accordance therewith, otherwise an offer is made under the provisions of The Public Works Ordinance. You will notice in the statement above that 233 offers have been made, and it has been necessary to write only 35 of these a second time and of that 35 all but three have accepted the amount offered. In all ten cases

remain unsettled while only one has taken steps to submit the matter to arbitration. So it may be assumed that these cases have been settled very satisfactorily to the settlers.

At the beginning of the season the Commissioner ruled that no more trails should be opened across country, but instead traffic be confined to the statutory road allowances, making diversions around natural obstructions where the estimated cost of improvement would not exceed the amount necessary to pay for the land for right of way should a diversion survey be made. In some cases, however, the settlers have agitated for the opening of blind lines or centre section lines, especially where the towns on the several railways are situated midway between the statutory road allowances running east and west which are two miles apart, but in each case, before such roads are opened, it has been necessary for those interested to secure agreements from the different owners whereby they agree to give the land required for the right-of-way. This method has been found to be most satisfactory in every case.

Arrangements were made with the Department of the Interior, at Ottawa, early in the year by which they agreed to make reservation for the land required for our surveyed trails, which affected unpatented lands, if certified tracings of the surveyor's plans are filed with them for that purpose. This method of dealing with trails through homestead property avoids the usual delay which was invariably experienced under the old system of securing assignments from the entrants for the area required for roads through unpatented lands, such assignments to be deposited with the Department of the Interior, it being almost impossible in some cases to establish communication with them, especially if the homestead had been abandoned without notification to the Dominion Land office. These arrangements, while lessening the correspondence of the office, require additional assistance to prepare the necessary copies of the plans, but the advantage derived, from being able to acquire the title to the lands at once, can be readily understood.

An effort has also being made during the past year to arrive at an understanding regarding the old trails which were surveyed by the Department at Ottawa and transferred to the Lieutenant-Governor of the Territories for public use; for while The Land Titles Act provides for the right of way for these roads whether or not they are mentioned on the title of lands affected, it is found that a great deal of dissatisfaction exists throughout the Territories where lands were purchased without the knowledge of an existing trail therethrough. It is hoped, however, that steps will be taken at an early date to remove any misunderstanding in the future regarding this matter, when lands affected by trails are purchased or homesteaded.

Mention might also be made of the material assistance rendered to the department by most of the companies holding lands within the Territories they, realising no doubt, the advantage to adjacent lands when road improvements are undertaken, have been most courteous regarding right-of-way required from their lands, and in many cases have made provision for the road in sale of lands before being compensated for the area taken. The co-operation in this respect on the part of the different companies controlling lands throughout the Territories does much towards relieving any dissatisfaction which might otherwise arise and which if once generated in any locality is carried on interminably.

The local organisations will in time no doubt prove of great assistance to the department in determining the necessity of deviation surveys in preference to injudicious attempts to improve the statutory road allowances, but at the present it is regrettable that the councils are too apt to endorse applications for surveys without being fully apprised of their nature or necessity, such action will, however, diminish as the more efficient settlers are selected as representatives in the local councils.

In addition to the surveys made by the district surveyors and engineers it was found necessary to engage local surveyors in order to have the more urgent work completed before the hard weather rendered it necessary to close operations in the field. R. C. Laurie, D.L.S., made a survey to connect the bridge across the Battle river at Battleford with the Saskatoon-Battleford trail, also completed the survey of the old Battleford-Cut Knife trail for a great part of the way. H. H. Moore, D.L.S., Calgary, surveyed the new road from Calgary to Cochrane south of the Bow river, a portion of the Calgary-Knee Hill trail and a diversion to the old Calgary-Millarville trail to permit access to the new bridge site below the Weasel Head crossing of the Elbow river on the Sareee Indian Reserve. Samuel Brodie, D.L.S., Fort Qu'Appelle, retraced the old Troy-Prince Albert trail between South Qu'Appelle and Fort Qu'Appelle, also some surveys for right-of-way for drains near Qu'Appelle.

Owing to the increased amount of work in the former district of East Assiniboia it was found necessary to divide the district into Qu'Appelle and East Assiniboia. W. T. Thompson, district surveyor and engineer of East Assiniboia retaining Qu'Appelle or the western part of his old district, while H. K. Moberly, D.L.S., formerly assistant to A. Driscoll, district surveyor and engineer for North Alberta, was engaged to take charge of East Assiniboia with headquarters at Moosomin.

C. H. Ellacott having resigned his appointment as drainage engineer in April, this work was turned over to T. H. Wiggins formerly assistant chief surveyor, who also took charge of the District of Centre Assiniboia with headquarters at the department.

A list of the surveys completed and examinations made in the various Public Works Districts will be found in the report of each surveyor and engineer.

Your obedient servant,

F. J. ROBINSON,
Director of Surveys.

Public Works District of North Alberta.

EDMONTON, ALBERTA, *December 31st, 1904.*

JOHN STOCKS, Esq.,

Deputy Commissioner of Public Works,
Regina.

SIR,—I have the honour to report on the work performed by this office during the past season, as follows:—

My first instructions arrived early in May and I started work on the 18th of the month, keeping my party in the field until the 24th of November and succeeded in completing about all the work for which instructions had been sent me, with the exception of the Victoria trail, which has again been laid over owing to pressure of other work.

From a weather point of view the work of 1904 has been more satisfactory than for some years past, the wet years of 1899-1903 seem to have given place to a dry term, as sloughs that last year were full of water are now dry, and roads that of late have been almost impassable on the same account are now again in good shape for travel. In this connection I have to say that much is due the various labour districts which seemed to realise that the dry years was the proper time for the repair of roads, and the result has been three times the amount of work as during any one of the last five years.

In the matter of drains, only requests for the drainage of permanent water areas seem to have been made this year, which considerably lessened the amount of work of that description we usually have to do during a season. It is realised, however, that the present dry seasons which have apparently begun will give place again to wet, and there is an evident desire to prepare for them in the shape of drains, so that we may look for an increase in that class of work next year.

Two important pieces of work have been completed this year, first, the bridging of the Borwick sloughs on the Battleford trail, which have been a source of much trouble for the last four years, and second, the drainage of Favels and intermediate lakes north of town. This last piece of work has been under construction for the last three years and to be appreciated must be seen. A third piece of work of this description is well under way, viz., the reclamation of the lake country between Stratheona and Ellerslie, six miles south of the former place. Ditcher No. 1 has been employed on this work during the past season and has completed over two miles of drain, the cuts of which are in places over twelve feet deep. It will probably take another season to complete this drain.

A great deal of work has been done generally this year by the department in the shape of grading and providing bridges, etc., but being under the supervision of others and requiring only an occasional inspection by this office, will not be detailed in this report.

In conclusion, I have to say that I have been fortunate in my assistants during the past season. A tactful staff is of great help in dealing with the class of work coming under this office, and I think there has been very little friction caused.

Following is a list showing the different surveys made.

Your obedient servant,

A. DRISCOLL,
District Engineer and Surveyor.

DRAINS.

Drainage of lake on north boundary of section 36 township 52 range 24 west of the fourth meridian.

Drain No. 4 renewing grade and slope stakes.

Drain No. 58 renewing grade and slope stakes.

Drain No. 110 renewing grade and slope stakes.

Drain between Two Creeks and Star, renewing grade and slope stakes.

Drain along road allowance east of section 29 township 54 range 22 west of the fourth meridian.

Drain along north boundary of section 32 township 52 range 27 west of the fourth meridian.

Drain along east boundary of sections 5, 8, 17, 20 and 29 township 55 range 23 west of the fourth meridian.

Restaking and extending drain in sections 13 and 23 township 56 range 24 west of the fourth meridian.

Restaking drain on north boundary of section 22 township 50 range 24 west of the fourth meridian.

Examination of drain between Two Creeks and Star for final payment.

Drain on the south boundary of section 3 township 51 range 14 west of the fourth meridian.

NEW ROADS and Trails.

Dowler hill road, Edmonton settlement.

Survey of road across Mounted Police Reserve, Fort Saskatchewan.

Road to bridge in N.W. ¼ section 13 township 54 range 23 west of the fourth meridian.

Road along blind line north of sections 13, 14, 15 and 16 township 50 range 24 west of the fourth meridian.

Road between north and south halves of section 11 township 54 range 25 west of the fourth meridian.

Road across section 11 township 52 range 23 west of the fourth meridian.

Re-survey of part of St. Albert trail in section 29 township 53 range 25 west of the fourth meridian.

Survey of road across section 24 township 50 range 28 west of the fourth meridian.

Survey of road across section 26 township 50 range 27 west of the fourth meridian.

Survey of road across section 18 township 50 range 27 west of the fourth meridian.

Survey of road across section 7 township 50 range 27 west of the fourth meridian.

Survey of road along blind line east of section 26 and north of section 25 township 49 range 28 west of the fourth meridian.

Survey of Millett and Pigeon lake trail in township 47 ranges 24, 25, 26, 27 and 28 west of the fourth meridian, and ranges 1 and 2 west of the fifth meridian.

Survey of road around the Borwick slough in township 56 range 16 west of the fourth meridian.

Re-survey of Cooking lake trail.

ROAD Diversions.

Diversion on N.W. ¼ section 9 township 53 range 25 west of the fourth meridian.

Survey through section 20 township 52 range 24 west of the fourth meridian, to connect Main street, Strathcona, with the Hay lake trail.

Road diversions in sections 19 and 20 township 51 range 23 west of the fourth meridian.

Road diversion north boundary section 23 township 52 range 1 west of the fifth meridian.

Road diversion in S.W. ¼ section 24 township 51 range 24 west of the fourth meridian.

Road diversion along east boundary of section 26 township 50 range 24 west of the fourth meridian.

Road diversion in N.E. ¼ section 16 township 50 range 24 west of the fourth meridian.

Road diversion in N.E. ¼ section 7 township 56 range 23 west of the fourth meridian.

Road diversion through section 11 township 47 range 25 west of the fourth meridian.

Road diversion on road leading east from Ledne in sections 21, 22 and 23 township 49 range 24 west of the fourth meridian.

Road diversion in section 3 township 47 range 27 west of the fourth meridian.

Road diversion around Huard lake in section 4 township 47 range 23 west of the fourth meridian.

Road diversion between north and south halves of section 5 township 47 range 23 west of the fourth meridian.

Diversions along blind line road north of sections 16 and 17 township 47 range 23 west of the fourth meridian.

Road diversion in section 11 township 56 range 19 west of the fourth meridian.

Road diversion in section 22 township 56 range 19 west of the fourth meridian.

Road diversion in section 21 township 56 range 19 west of the fourth meridian.

Road diversions in sections 18 and 19 township 47 range 23 west of the fourth meridian.

Road diversions in sections 23, 24 and 26 township 56 range 19 west of the fourth meridian.

Road diversion in s.e. $\frac{1}{4}$ section 30 township 53 range 21 west of the fourth meridian.

Road diversion across school section 29 township 55 range 23 west of the fourth meridian.

EXAMINATION and Inspection.

Inspection of road and location of bridge over Sturgeon river at St. Albert.
Inspection and location of bridge, Point-aux-Pins creek, east boundary section 14 township 54 range 23 west of the fourth meridian.

Examination of bridge over Beaver creek in n.e. $\frac{1}{4}$ section 33 township 55 range 19 west of the fourth meridian.

Examination of road around Borwick slough.

Examination and levels for grade at Hardisty bridge, section 28 township 55 range 22 west of the fourth meridian.

Examination of road north boundary section 36 township 52 range 24 west of the fourth meridian.

Examination of Dowler's hill road.

Inspection of ditch and grading on 14th base line west of Edmonton.

Examination of road through Stoney Indian Reserve.

Inspection of grading along ditch No. 2.

Examination and inspection of work done on correction line north of township 54 ranges 21 and 22 west of the fourth meridian.

Examination and inspection of road work near bridge over Mill creek, section 28 township 52 range 24 west of the fourth meridian.

Examination of road through sections 18 and 19 township 50 range 27 west of the fourth meridian.

Examination for road in township 47 range 23 west of the fourth meridian.

Examination of Wetaskiwin and Pigeon lake trail from township 46 range 27 west of the fourth meridian, north.

Examination of road south of sections 6 and 5 township 47 range 24 west of the fourth meridian.

Examination of road along east boundary of section 21 township 56 range 19 west of the fourth meridian.

Examination of road allowance along north boundary of section 22 township 56 range 19 west of the fourth meridian.

Examination of road along east boundary of section 28 township 56 range 18 west of the fourth meridian.

Examination of road in section 30 township 56 range 15 west of the fourth meridian.

Examination of road along north boundary of section 8 township 53 range 21 west of the fourth meridian.

Examination of drain No. 1.

Examination of part of Victoria trail across sections 2 and 3 township 55 range 22 west of the fourth meridian.

Lacombe Public Works District.

RED DEER, ALBERTA, *December 31st, 1904.*

JOHN STOCKS, Esq.,

Deputy Commissioner of Public Works,

Regina, Assa.

DEAR SIR,—I have the honour to submit the following report in connection with the work performed by me in the Lacombe Public Works District for the season 1904, a classified schedule of which is hereto attached.

Owing to an unusually late spring with heavy rains, which rendered the roads impassable, I was unable to commence field operations until May 25th when I proceeded at once for the southern part of the district. From this point I intended working north and as far east and west of the

Calgary and Edmonton branch of the Canadian Pacific railway as my work extended, which in a number of cases exceeded fifty miles, and finally completing the season's operations in the vicinity of Dried Meat lake about sixty miles east of Wetaskiwin. I found no difficulty in handling the work for which instructions were issued under the system adopted by your department, that is, by issuing instructions in order along the route laid down by the district engineer and surveyor before commencing work in the spring. This is very necessary in the Lacombe district where the work is spread over a large and comparatively narrow area, and it can be readily understood that considerable time would be lost if it was found necessary to return over the same route in order to complete the work which has been overlooked. I am pleased to report having with one or two exceptions, completed all the work for which instructions were issued, this, however, was largely owing to an unusually favourable season and the excellent condition of the roads. I found a marked improvement in the condition of the roads throughout the whole of the district. Favoured by an unusually dry season and liberal grants from your department the officials of the several districts were enabled to perform a larger amount of permanent work than was possible in the last few years.

From what information I could gather this season the new districts formed earlier in the year seem to be accomplishing the work intended and the interest taken by the general public in the improvement of the roads is shown, in many cases by a voluntary increase of assessment over that levied under the old system and in all cases the money has been economically expended.

I found that owing to the change in conditions, that is from a wet to a dry season, a number of road surveys made some years ago and also some of which have been applied for, may be abandoned, the sloughs which were to be avoided having in the meantime become sufficiently dry to admit of their being graded. This is more noticeable in the cases of the old trails east of Wetaskiwin which a number of settlers have for some time urged the department to survey and establish. These, however, have been allowed to stand pending the final location of the branch lines of the Canadian Pacific railway and also with a view of avoiding, if possible, the irreparable damage done by the survey of these roads by cutting the lands thereby into several fractions. If the moderately dry seasons continue for a few years I am of the opinion that there will no necessity for establishing these trails, as the road allowance will be opened and improved in lieu of the same without any considerable difficulty.

I regret to say that the steam ditcher operating in the vicinity of Morningside encountered some very bad ground, and owing to this and the lateness in starting work (about the middle of August), the work was not what might be expected of a machine of this description. There was very little drainage work in the past season, all of which was undertaken by the districts, but, as they were constructed and the right of way arranged by mutual agreement, no report or assessment was necessary.

My party, throughout the whole season from May 25th to November 3rd, consisted of one assistant, four men and a cook. My transport, etc., included two teams and two waggon with the usual camp equipage for a party of this size.

Your obedient servant,

A. E. FARNCOMB,
District Engineer and Surveyor.

ROAD Diversions.

Change in Coal lake trail in sections 35 and 26 township 46 range 23 west of the fourth meridian.

Change in Calgary and Edmonton trail in section 24 township 34 range 29 west of the fourth meridian.

Change in road diversion in section 21 township 35 range 26 west of the fourth meridian.

Road diversion in section 34 township 37 range 26 west of the fourth meridian.

Road diversion in section 20 township 37 range 27 west of the fourth meridian.

Road diversion in section 35 township 38 range 27 west of the fourth meridian.

Road diversion to bridge over Blindman river between townships 39 and 40 range 1 west of the fifth meridian.

Road diversion section 34 township 39 range 1 west of the fifth meridian.

Road diversion section 33 township 39 range 1 west of the fifth meridian.

Road diversion sections 4 and 5 township 40 range 1 west of the fifth meridian.

Road diversions around bend of Blindman river in section 34 township 39 range 1 west of the fifth meridian.

Change in Blackfalds and Buffalo lake trail section 17 township 39 range 26 west of the fourth meridian.

Road diversion in sections 25 and 26 township 41 range 26 west of the fourth meridian.

Road diversion in section 10 township 42 range 26 west of the fourth meridian.

Road diversion in section 31 township 41 range 24 west of the fourth meridian.

Road diversion in section 28 township 46 range 21 west of the fourth meridian.

Road diversion in section 20 township 46 range 21 west of the fourth meridian.

Road diversion in sections 5 and 32 township 45 range 22 west of the fourth meridian.

Road diversion in sections 21 and 28 township 45 range 22 west of the fourth meridian.

Road diversion in section 23 township 45 range 22 west of the fourth meridian.

Road diversion in section 6 township 44 range 20 west of the fourth meridian.

Road diversion in section 13 township 45 range 21 west of the fourth meridian.

Road diversion in section 1 township 45 range 21 west of the fourth meridian.

Road diversion in section 11 township 46 range 20 west of the fourth meridian.

Road diversion in section 36 township 45 range 20 west of the fourth meridian.

Road diversion in section 29 township 45 range 19 west of the fourth meridian.

Road diversion in section 28 township 45 range 19 west of the fourth meridian.

Road diversion in section 15 township 45 range 19 west of the fourth meridian.

Road diversion in section 21 township 45 range 19 west of the fourth meridian.

Road diversion in section 11 township 45 range 19 west of the fourth meridian.

Road diversion in section 11 township 44 range 23 west of the fourth meridian.

Road diversion in sections 25 and 36 township 40 range 27 west of the fourth meridian.

Road diversion in section 29 township 37 range 27 west of the fourth meridian.

Road diversion east of section 35 township 43 range 27 west of the fourth meridian.

Road diversion to bridge over the Medicine river in section 7 township 38 range 2 west of the fifth meridian.

Change in road through the property of H. H. Gaetz, along the C. & E. Railway north of Red Deer.

Road diversion in section 10 township 39 range 24 west of the fourth meridian.

DRAINS.

Survey of drain in section 11 township 45 range 22 west of the fourth meridian.

Survey of drain sections 22 and 23 township 38 range 27 west of the fourth meridian.

Survey of right of way for drain to drain slough in sections 20 and 21, 28 and 29 township 39 range 24 west of the fourth meridian.

INSPECTIONS and Reports.

Report on road east of sections 27 and 34 township 41 range 25 west of the fourth meridian.

Report on road diversion in section 24 township 46 range 25 west of the fourth meridian.

Report on road from Red Deer east.

Report on road from Bowden east.

Report on road in section 1 township 40 range 22 west of the fourth meridian.

Report on road east of section 19 township 44 range 25 west of the fourth meridian.

Report on road diversion east of section 22 township 44 range 23 west of the fourth meridian.

Report on continuation of survey along blind line north of sections 27, 28 and 29 township 43 range 25 west of the fourth meridian to the Calgary and Edmonton trail.

Road west from Blackfalds and Calgary and Edmonton trail in township 39 range 27 west of the fourth meridian.

Report on road diversion in sections 15 and 16 township 37 range 26 west of the fourth meridian.

Report on old Hudson's Bay trail west to Rocky Mountain House.

Report on road in section 34 township 38 range 22 west of the fourth meridian.

Report on road to proposed ferry over Red Deer river at Tail creek section 34 townships 38 range 22 west of the fourth meridian.

Report on road from the north-east corner of section 34 township 46 range 21 west of the fourth meridian south to Battle river and necessary diversions to give access to Duhamel post office.

Report on road through sections 3, 10, 15 and 22 township 44 range 20 west of the fourth meridian.

Report re road westerly from Egans bridge south of the river across section 16 township 39 range 28 west of the fourth meridian.

Report re necessity of a road to give access to sections 28 and 34 township 38 range 27 west of the fourth meridian.

Report re road north of section 31 township 39 range 26 west of the fourth meridian.

Report re proposed road through townships 46 and 47 range 25 west of the fourth meridian.

Report re survey to connect with road running west to Blackfalds.

Report re road diversion north of section 7 township 44 range 25 west of the fourth meridian.

Report re road in townships 46 and 47 range 25 west of the fourth meridian.

Report re survey in sections 17 and 18 township 46 range 23 west of the fourth meridian.

Report re diversion from road allowance north of sections 31 and 32 township 46 range 22 west of the fourth meridian.

Report and partial survey of road north of sections 1, 2, 3 and 4 township 39 range 1 west of fifth meridian.

Report and partial survey of road north of sections 7, 8, 9, 10, 11 and 12 township 37 range 1 west of the fifth meridian.

Report re closing present trail across the Calgary and Edmonton railway track at Lacombe.

NEW Roads.

Road in townships 46 and 47 ranges 24 and 25 west of the fourth meridian.

Road from Bear lake to Pigeon lake.

Road north of sections 17 and 18 township 46 range 23 west of the fourth meridian.

Road west of Coal lake in sections 2 and 11 township 47 range 23 and sections 26 and 35 township 46 range 23 west of the fourth meridian.

Road along blind line north of section 13 township 44 range 19 and sections 18 and 19 township 44 range 18 west of the fourth meridian.

Road to Little Red Deer river in sections 19 and 30 township 35 range 1 west of the fifth meridian.

Road to Little Red Deer river in section 35 township 34 range 2 west of the fifth meridian.

Road across sections 26 and 27 township 34 range 2 west of the fifth meridian.

Completion of road from Penhold to Pine lake in sections 28 and 29 township 36 range 25 west of the fourth meridian.

Road south from Pine lake post office in section 22 township 36 range 25 west of the fourth meridian.

Road to Pine lake creek bridge in section 22 township 36 range 25 west of the fourth meridian.

Road south of Egan's bridge in section 15 township 39 range 28 west of the fourth meridian.

Road in sections 1, 2 and 6 township 42 ranges 25 and 26 west of the fourth meridian.

Road across sections 27, 28, 26, 35 and 36 township 43 range 22 west of the fourth meridian.

Road through township 39 ranges 23 and 24 west of the fourth meridian.

Road in section 19 township 36 range 1 west of the fifth meridian.

Road to Lacombe cemetery in section 31 township 40 range 26 west of the fourth meridian.

Road through section 29 township 46 range 21 west of the fourth meridian.

Completion of road from Burnt lake to Evans post office, in township 38 range 2 west of the fifth meridian.

Road across section 22 township 44 range 21 west of the fourth meridian.

Road in sections 29 and 30 township 35 range 28 west of the fourth meridian.

Change in Calgary and Edmonton trail in sections 20, 28 and 29 township 41 range 26 west of the fourth meridian.

Public Works District of Calgary.

CALGARY, *January 1st, 1905.*

JOHN STOCKS, Esq.,

Deputy Commissioner of Public Works,

Regina, Assa.

SIR,— I have the honour to submit the following report of the work done by me in the Public Works District of Calgary during the year 1904.

Office work was somewhat behind at the first of the year, owing to my illness in October and November, 1903, and I was left alone to attend to it until the middle of March, when I secured a draughtsman for some time.

New instructions for urgent work were sent me as early as the 13th of February and some more in April and May. This together with some surveys and examinations left over from the previous season, gave me more than two months work in the field, which was done, the plans and reports being sent in before I organised the party for the regular season's work.

On the 1st of August I took the field with full party going south, making surveys east and west of the Macleod trail as far as Cayley, coming round by Pekisko, Tongue Creek, Lineham, Millarville and Pridis to Calgary, where I arrived on the 10th of October.

After two days spent at Calgary to attend to some urgent work near town, I left for the north, making surveys east and west of the Calgary and Edmonton trail as far as Olds, coming back by way of Beaver Dam

creek, Bradbourne, Cochrane and the Sarcee Indian Reserve. I arrived at Calgary on the 25th of November and discharged the party, keeping two men on hand to make a few examinations of proposed surveys and take levels for proposed drains.

Work for the season was completed on the 22nd of December. I am now preparing, with the help of a draughtsman, plans and reports of surveys which have not already been sent in.

SCHEDULE of surveys made during the year 1904.

OLD Trails.

Diversion of the Morleyville trail in sections 3, 10 and 11 township 26 range 4 west of the fifth meridian.

Diversion of the Morleyville trail in section 13 township 26 range 6 west of the fifth meridian.

Diversion of the Morleyville trail in section 17 township 26 range 5 west of the fifth meridian.

Diversion of the Morleyville trail in sections 11 and 12 township 26 range 4 west of the fifth meridian.

Diversion of the Macleod trail in sections 20 and 29 township 21 range 29 west of the fourth meridian.

Diversion of Patrick's trail in section 33 township 21 range 2 west of the fifth meridian.

Diversion of trail of Sarcee Indian Reserve.

NEW Roads.

Road on blind line north of sections 13, 14, 15, 16, 17 and 18 township 31 ranges 2 and 3 west of the fifth meridian.

Road through sections 17 and 20 township 20 range 29 west of the fourth meridian.

Road through sections 3, 4, 5, 7, 8 and 9 township 19 range 27 west of the fourth meridian.

Road to connect Pekisko with trail surveyed to High river township 18 range 1 west of the fifth meridian.

Road on west half of section 8 and diversion east of section 17 township 19 range 28 west of the fourth meridian.

Road on sections 6 and 8 township 20 range 2 west of the fifth meridian.

Road between the north and south forks of Sheep creek township 20 range 3 west of fifth meridian.

Road through sections 16, 21, 28, 33 and 34 township 21 range 3 west of the fifth meridian.

Road north of section 2 and part of section 1 township 22 range 1 west of the fifth meridian.

Re-survey of road on sections 16 and 21 township 24 range 1 west of the fifth meridian.

Road through sections 9, 10 and 11 township 27 range 1 west of the fifth meridian.

Road along blind line north of sections 18, 17, 16, 15, 14 and 13 township 30 range 2 west of the fifth meridian and north of section 18 township 30 range 1 west of the fifth meridian.

Road on sections 22, 27 and 32 township 32 range 2 west of the fifth meridian.

Road on sections 3 and 4 township 29 range 4 west of the fifth meridian.

Re-survey of Priddis road in section 22 township 22 range 3 west of the fifth meridian.

Re-survey of part of road from Cochrane steel bridge to Jumping Pound creek townships 25 and 26 range 4 west of the fifth meridian.

DIVERSIONS.

Diversion of road surveyed last year in section 5 township 25 range 1 west of the fifth meridian.

Diversion of road in section 11 township 24 range 2 west of the fifth meridian.

Diversion of road across the fifth meridian north of township 24.

Diversion east of section 27 township 25 range 4 west of the fifth meridian.

Diversion north of section 9 township 19 range 29 west of the fourth meridian.

Diversion north of section 11 township 17 range 29 west of the fourth meridian.

Diversion east section 13 township 17 range 27 west of the fourth meridian.

Diversion south section 2 township 19 range 28 west of the fourth meridian.

Diversion north of section 23 township 17 range 29 west of the fourth meridian.

Diversion east section 14 township 19 range 1 west of the fifth meridian.

Diversion east section 16 township 19 range 1 west of the fifth meridian.

Diversion north section 11 township 19 range 1 west of the fifth meridian.

Diversion east of sections 20 and 30 township 16 range 28 west of the fourth meridian.

Diversion north section 25 township 29 range 29 west of the fourth meridian.

Diversion east section 12 township 31 range 2 west of the fifth meridian.

Diversion east section 4 township 32 range 2 west of the fifth meridian.

Diversion north section 28 township 32 range 1 west of the fifth meridian.

Diversion south section 5 township 27 range 4 west of the fifth meridian.

Diversion east section 21 township 26 range 5 west of the fifth meridian.

Diversion east section 5 township 24 range 4 west of the fifth meridian.

Completion of diversions sections 6 and 7 township 19 range 28 west of the fourth meridian.

DRAINS.

To drain slough in section 34 township 23 range 29 west of the fourth meridian; sketch and report.

To drain slough in sections 24 and 25 township 23 range 29 west of the fourth meridian; sketch and report.

To drain slough in sections 22 and 23 township 23 range 27 west of the fourth meridian; sketch and report.

To drain slough east section 17 township 19 range 28 west of the fourth meridian.

To drain sloughs north and west of section 10 township 20 range 2 west of the fifth meridian.

Taking levels to drain slough Blackfoot trail north section 12 township 24 range 29 west of the fourth meridian.

EXAMINATIONS and Inspections.

Examination and report about proposed road on section 9 township 24 range 29 west of the fourth meridian.

Examination and report about road north of township 24 ranges 28 and 29 west of the fourth meridian.

Examination and report about road as an outlet to section 25 township 23 range 1 west of the fifth meridian.

Examination and report about improvements required to roads in township 25 range 29 west of the fourth meridian.

Examination and report about Mission hill; repairs required.

Examination and report about Bow Marsh bridge.

Examination and report about trails on Sarcee Indian Reserve.

Examination and taking levels for grade on road to Jumping Pond creek, township 25 range 4 west of the fifth meridian.

Taking levels for grade on North Morleyville trail near Cochrane, township 26 range 4 west of the fifth meridian.

Examination, sketch and report about Knee Hill trail, townships 24 and 25 ranges 28 and 29 west of the fourth meridian.

Examination and report about road from north boundary of section 22 township 20 range 29 west of the fourth meridian, to intersect Macleod trail on Sheep creek.

Examination and report about proposed diversion east section 24 township 23 range 1 west of the fifth meridian.

Examination of proposed diversion east of sections 16 and 21 township 30 range 1 west of the fifth meridian.

Examination of proposed diversion east section 14 township 32 range 2 west of the fifth meridian.

Examination of proposed new road from North Morleyville trail, north through townships 25 and 26 range 3 west of the fifth meridian.

Examination of proposed change of new road in section 20 township 25 range 4 west of the fifth meridian.

Examination of roads east of sections 5 and 8, and north of sections 9, 10 and 11, establishing north east corner of section 11 township 24 range 4 west of the fifth meridian.

Examination in sections 33 and 34 and adjoining part of Sarcee Indian Reserve, about road across and bridge site over Fish creek; levels for grade and cross section of creek.

Examination of road north section 36 township 24 range 1 west of the fifth meridian, for ditch and improvements.

Examination of road east sections 4, 9, 16 and 21 township 23 range 29 west of the fourth meridian; draining and improvements.

Examination of road east sections 1 and 12 township 23 range 29 west of the fourth meridian; levels taken for drain, general improvements.

Examination of Nose creek trail, bush trail in sections 30 and 31 township 25, section 6 township 26 range 1 west of the fifth meridian, and section 1 township 26 range 2 west of the fifth meridian; for required changes and improvements.

Examination and report of road near Kennedy's bridge east section 17 township 26 range 1 west of the fifth meridian.

Examination of road from Cochrane south to Elbow river; report and estimate cost of improvements required.

Cross section of Elbow river at new site Weasel Head bridge, Sarcee Indian Reserve.

Examination of road north of section 20 and centre of section 23 township 32 range 2 west of the fifth meridian (for road overseer).

Building mounds of last year's survey section 2 township 30 range 3 west of the fifth meridian.

Remounting part of Macleod trail township 21 range 1 west of the fifth meridian.

The distance I have travelled this season is much in excess of that of the two previous; the number of surveys and examinations was large, as the instructions for the different surveys required in each part of the district could not, in many instances, be issued, at the same dates it necessitated my going twice over part of the district.

Travelling was made much easier this year; the roads were in general in fairly good condition after the first of July owing to the dryness of the season, and also on account of the large amount of improvement work done by your department on the main roads throughout the district.

Your obedient servant,

ALBERT CHAS. TALBOT,
District Engineer and Surveyor.

Public Works District of South Alberta.

MACLEOD, December 31st, 1904.

JOHN STOCKS, Esq.,

*Deputy Commissioner of Public Works,
Regina, N.W.T.*

SIR,— I have the honour to submit my annual report, showing the work done in the Macleod Public Works District during the year 1904.

Between 1st January and 31st May I was generally occupied in preparing returns of surveys made during the season of 1903, but several special trips were made to outside points during these months to make inspections and to obtain cross-sections for bridges.

On the 1st of June I organised a party and prepared to take the field. The season's work was taken up in the following order:—Stand Off, Cardston, Lethbridge, Macleod, Cowley, Blairmore, Cowley, Livingstone, Mountain Mill, Pincher Creek, Drywood river, Mountain View, Cardston, Taylorville, Cardston and Macleod,

The season, as a whole, was very favourable for surveying operations and a few days were lost on account of bad weather.

Separate reports accompanied by sketches have been transmitted to the department on the completion of each survey made.

OLD Trails.

None.

NEW Roads.

New road from Stand Off in sw $\frac{1}{4}$ section 21 township 6 range 25 west of the fourth meridian, south-west through townships 5 and 6 ranges 25 and 26 west of the fourth meridian.

New road from Cardston N.E. $\frac{1}{4}$ section 9 township 3 range 25 west of the fourth meridian to St. Mary river bridge, s.w. $\frac{1}{4}$ section 23 township 3 range 25 west of the fourth meridian across Blood Indian Reserve.

New road from bridge over Old Man river, near Macleod section 10 township 9 range 26 west of the fourth meridian, through sections 10, 15, east boundary 15, 23, east boundary 23 all in township 9 range 26 west of the fourth meridian.

New road from end of road (surveyed by F. W. Wilkins, D.L.S., from Pincher Creek to the Crow's Nest Pass) at the east boundary of section 12 township 7 range 3 west of the fifth meridian to a connection with road (surveyed by F. J. Robinson, D.L.S., from near Cowley to the Crow's Nest Pass) in the s.w. $\frac{1}{4}$ section 13 township 7 range 3 west of the fifth meridian and a connection from above mentioned road at north boundary of section 12 township 7 range 3 west of the fifth meridian giving outlet to Messrs. Eddy and Bradshaw.

New road connecting surveyed roads *via* Government bridge on Todd creek in section 31 township 7 range 1 west of the fifth meridian, through sections 31 and 32 township 7 range 1 west of the fifth meridian.

New road over old ford of Middle Fork of Old Man river from surveyed road in the N.E. $\frac{1}{4}$ section 29 township 7 range 1 west of the fifth meridian, through sections 29, 32, 33 and 28 township 7 range 1 west of the fifth meridian to road allowance on north boundary section 21 township 7 range 1 west of the fifth meridian.

New road from north boundary section 20 township 9 range 2 west of the fifth meridian near the north-east corner of the section through sections 21 and 22 and N.E. $\frac{1}{4}$ of 15, all in township 9 range 2 west of the fifth meridian, to give outlet to Messrs M. S. and T. J. Wilson.

New road in section 4 township 7 range 29 west of the fourth meridian connecting with Macleod-Pincher Creek road to give outlet to Fred C. Austin, s.e. $\frac{1}{4}$ section 4 township 7 range 29 west of the fourth meridian.

New road between north and south halves of section 25 township 5 range 30 west of the fourth meridian, and between north and south halves of section 30 township 5 range 29 west of the fourth meridian to give outlet to travellers from the east to the timber.

New road from coal mine in N.E. $\frac{1}{4}$ section 8 township 5 range 30 west of the fourth meridian, through sections 12, 13 and 24 township 5 range 1 west of the fifth meridian, to connection with surveyed road from Pincher Creek to the mountains in s.w. $\frac{1}{4}$ section 24 township 5 range 1 west of the fifth meridian.

New road to the timber from the north boundary of the N.E. $\frac{1}{4}$ section 22 through sections 22, 21, 16 and 17 to the north boundary section 8, all in township 5 range 1 west of the fifth meridian.

New road between the north and south halves of section 24 township 3 range 25 west of the fourth meridian, to give more direct route to Cardston for settlers toward the east.

New road and road diversions between the south $\frac{1}{2}$ of section 2 township 1 range 25 west of the fourth meridian, on the International boundary line, and the range line road allowance east of range 25 west of the fourth meridian, through sections 2, 11, 12, 13 township 1 range 25 west of the fourth meridian, to give thoroughfare for immigration from the United States to Kimball, Cardston and other points toward the north.

ROAD Diversions.

Road diversion from old Macleod-Lethbridge surveyed road, to connect with new bridge across Belly river near Lethbridge, N.W. $\frac{1}{4}$ section 1 township 9 range 22 west of the fourth meridian.

Road diversions from surveyed road, to connect with bridges, on road between Frank and Blairmore, in sections 35 and 36 township 7 range 4 west of the fifth meridian,

Road diversions in N.W. $\frac{1}{4}$ section 19 township 8 range 1 and S.E. $\frac{1}{4}$ section 25 township 8 range 2 west of the fifth meridian, to avoid a hill and marshy ground.

Road diversion in N.E. $\frac{1}{4}$ section 10 township 7 range 1 west of the fifth meridian, to secure better crossing of coulee.

Road diversions in N.E. $\frac{1}{4}$ section 12 township 6 range 2 west of the fifth meridian, and S.W. $\frac{1}{4}$ section 18 township 6 range 1 west of the fifth meridian, and N.W. $\frac{1}{4}$ section 7 township 6 range 1 west of the fifth meridian, to obtain grade on hill and give approach to bridge site over Mill creek near north east corner section 12 township 6 range 2 west of the fifth meridian, connection on east end with surveyed road between Pincher Creek and Mountain Mill.

Road diversion in S.W. $\frac{1}{4}$ section 27 township 5 range 30 west of the fourth meridian, to avoid marsh.

Road diversion in S.W. $\frac{1}{4}$ section 7 township 5 range 29 west of the fourth meridian, to afford better crossing of coulee.

Road diversion in N.E. $\frac{1}{4}$ section 23, S.E. $\frac{1}{4}$ section 26, S.W. $\frac{1}{4}$ section 25, all in township 5 range 1 west of the fifth meridian, to avoid marshy ground, connection on eastern end with surveyed road from Pincher Creek to the mountains.

Road diversion from surveyed road, Pincher Creek to the mountains in sections 25, 36 township 5 range 1 west of the fifth meridian, to bridge site over Pincher Creek in N.W. $\frac{1}{4}$ section 25 township 5 range 1 west of the fifth meridian.

Road diversion in sections 17, 18 and 7, all in township 4 range 28 west of the fourth meridian, connecting at the west end with surveyed road to bridge across Drywood river in N.E. $\frac{1}{4}$ section 12 township 4 range 29 west of the fourth meridian, made to avoid Drywood river and its cut banks.

Road diversion from surveyed trail in N.W. $\frac{1}{4}$ section 31 township 2 range 25 west of the fourth meridian and N.E. $\frac{1}{4}$ section 36 township 2 range 26 west of the fourth meridian, to connect with bridge over Lee's creek in N.E. $\frac{1}{4}$ section 36 township 2 range 26 west of the fourth meridian.

Road diversion in N.W. $\frac{1}{4}$ section 24 township 2 range 26 west of the fourth meridian to give outlet to Messrs Barnes and White.

Road diversion in sections 5, 6 township 1 range 25 west of the fourth meridian to obtain better grade on hill.

RE-SURVEYS.

Re-survey to obtain better grades of surveyed road leading to bridge over Middle Fork of Old Man river in N.E. $\frac{1}{4}$ section 21 township 7 range 1 west of the fifth meridian.

Re-survey to obtain better grades of surveyed road through sections 4, 5, 8 all in township 8 range 2 west of the fifth meridian near Gillingham.

DRAINAGE Surveys.

Survey of government drain in S.W. $\frac{1}{4}$ section 4 township 4 range 29 west of the fourth meridian and N.W. $\frac{1}{4}$ section 33 township 3 range 29 west of the fourth meridian, to drain marshy portion of road allowances used in connection with main road between Pincher Creek and the Oil fields.

BRIDGE and Ferry sites.

Location of ferry site near ford across Old Man river at its junction with Pincher creek in S.E. $\frac{1}{4}$ section 16 township 7 range 29 west of the fourth meridian.

Location of bridge site on Pincher creek in N.W. $\frac{1}{4}$ section 25 township 5 range 1 west of the fifth meridian.

Location of bridge site on Pincher creek in N.E. $\frac{1}{4}$ section 13 township 5 range 1 west of the fifth meridian.

Location of bridge site on Mill creek near north-east corner section 12 township 6 range 2 west of the fifth meridian.

IRRIGATION Inspections.

Inspection of irrigation scheme of W. R. Vaughn of Taylorville sections 3, 4 and 9 all in township 1 range 24 west of the fourth meridian.

Inspection of irrigation scheme of John N. West of Mountain View sections 3 and 4 township 2 range 28 west of the fourth meridian.

EXAMINATIONS and Reports.

Examination and report re abandonment of certain portions of surveyed roads in sections 26 and 35 township 5 range 1 west of the fifth meridian and

section 2 township 6 range 1 west of the fifth meridian, also survey of connection between two of the above named roads in s.e. $\frac{1}{4}$ section 25 township 5 range 1 west of the fifth meridian.

Examination of road diversion near Bellevue in section 28 township 7 range 3 west of the fifth meridian, as laid out by J. E. Woods, D.L.S.

Examination and report on proposed road from Blairmore to Lille collieries around west side of Bluff mountain.

Examination and report on proposed road between east and west halves of sections 3 and 10 township 4 range 29 west of the fourth meridian.

Examination and report on surveyed road through n.w. $\frac{1}{4}$ section 13 township 2 range 27 west of the fourth meridian.

Report on proposed acquisition by the department of road between Frank and Lille collieries.

Examination and report on proposed road across the slide at Frank in lieu of old road which is at present covered with debris.

Report on proposed road between Bellevue and East Slide siding in n.e. $\frac{1}{4}$ section 20 township 7 range 3 west of the fifth meridian.

Plans and field notes for the above surveys are now in the course of preparation.

Your obedient servant,

A. W. PONTON,

District Engineer and Surveyor.

West Assiniboia Public Works District.

MEDICINE HAT, *December 31st, 1904.*

JOHN STOCKS, Esq.,

Deputy Commissioner of Public Works.

Regina, Assa.

SIR,—I have the honour to submit the following report on the work done in the district of West Assiniboia during the past season.

The early part of the year was occupied in preparing returns of surveys made during 1903. These being completed I organised my party and commenced field work on the 20th of May.

I began work in the western part of my district working gradually eastwards during the first part of the season and then westward again, finishing the season in the vicinity of Medicine Hat.

As in 1902 the greater part of the season's work consisted in the survey of old trails of considerable length or of roads to take the place of the old trails where changes therein seemed advisable. In addition to this a number of road allowances were examined and also old surveyed trails and the necessity for surveys reported on; bridge sites were located and diversions made to road allowances and surveyed trails.

A detailed report was sent in to your department on the completion of each piece of work.

The weather was exceptionally good during the greater part of the season and very little time was lost, a few days in June owing to rain and a few days in September through snow.

Field work was completed on November 30th, no surveys being left outstanding.

During the month of December I have been occupied preparing returns of the season's work, and one survey for which instructions were received after my party was disbanded, was examined and reported on.

I give below a list of surveys made and other work done.

LIST OF SURVEYS.

Diversion from surveyed trail from Medicine Hat to Dunmore in section 28 township 12 range 5 west of the fourth meridian.

Diversion from surveyed trail from Maple Creek to the Gap in sections 21 and 29 township 29 range 26 west of the third meridian.

Diversion from road allowance section 8 township 10 range 25 west of the third meridian.

Diversion from road allowance section 22 township 12 range 8 west of the fourth meridian.

Diversion from surveyed trail from Medicine Hat to Josephsburg section 9 township 12 range 5 west of the fourth meridian.

Survey of old trail from Medicine Hat to Seven Persons tank.

Survey of old trail from Medicine Hat to Eagle Butte, from section 21 township 11 range 5 west of the fourth meridian, to section 30 township 8 range 4 west of the fourth meridian.

Survey of continuation of trail from Maple Creek to the Gap, from section 26 township 8 range 26 west of the third meridian, to section 25 township 7 range 26 west of the third meridian.

Survey of old trail from Maple Creek to east end from section 19 township 10 range 24 west of the third meridian through township 9 range 24 west of the third meridian, township 9 range 23 west of the third meridian, township 8 range 23 west of the third meridian, township 7 range 23 west of the third meridian, township 7 range 22 west of the third meridian and township 7 range 21 west of the third meridian to section 31 township 6 range 21 west of the third meridian.

Survey of old trail south from section 33 township 9 range 27 west of the third meridian to section 6 township 8 range 27 west of the third meridian.

Survey of old trail south from section 15 township 12 range 6 west of the fourth meridian to section 2 township 12 range 6 west of the fourth meridian.

Survey of road across sections 20 and 29 township 11 range 26 west of the third meridian to give access to bridge over Gap creek.

Survey of road east from Maple creek from section 8 township 11 range 24 west of the third meridian to section 12 township 11 range 21 west of the third meridian.

Survey of road north-west from Medicine Hat from section 34 township 12 range 5 west of the fourth meridian to section 15 township 13 range 5 west of the fourth meridian.

EXAMINATIONS.

Examination of road allowance north of section 31 township 12 range 5 west of the fourth meridian.

Report on proposed road through section 4 township 13 range 5 west of the fourth meridian.

Examination and report on proposed road in N.E. $\frac{1}{4}$ section 30 township 12 range 5 west of the fourth meridian.

Examination and report on proposed road in section 18 township 10 range 5 west of the fourth meridian.

Examination and report on proposed change in road from Medicine Hat to cemetery section 31 township 12 range 5 west of the fourth meridian.

Examination and report on proposed change in trail from Irvine to Josephsburg in section 31 township 11 range 2 west of the fourth meridian.

Examination and report re proposed road in section 27 township 13 range 26 west of the third meridian.

Examination and report on road allowance east of section 28 township 11 range 26 west of the third meridian.

Examination and report on bridge site at Irvine and road to give access thereto section 36 township 11 range 3 west of the fourth meridian.

Examination and report on part of old Fort Walsh trail in section 2 township 8 range 29 west of third meridian and section 35 township 7 range 29 west of the third meridian.

Examination and report on part of surveyed trail in section 36 township 12 range 6 west of the fourth meridian.

Examination and report on proposed road across section 34 township 9 range 25 west of the third meridian.

Examination and report on old trail from Medicine Hat to Josephsburg from section 29 township 12 range 5 west of the fourth meridian to section 30 township 11 range 4 west of the fourth meridian.

Examination and report on trails from Moose Jaw to Willow Bunch and Wood Mountain.

Cross sections for bridges were taken wherever streams were crossed in the course of surveys.

Your obedient servant,

L. C. CHARLESWORTH,
District Engineer and Surveyor.

Public Works District of Centre Assiniboia.

REGINA, December 31st, 1904.

JOHN STOCKS, Esq.,

Deputy Commissioner of Public Works,
Regina, N.W.T.

SIR,—I have the honour to submit the following report of the work performed by this office in the public works district of Centre Assiniboia and on government drain No. 60, near the city of Prince Albert and No. 141 near the town of Duck Lake, during the season 1904.

I was appointed district surveyor and engineer by Order-in-Council dated the 16th of May last.

During the months of May, June, July, August and September my time was mostly devoted to government drainage works. The balance of the season I was engaged on surveys of new roads, road diversions, etc., in the district of Centre Assiniboia and owing to the fine weather was enabled to continue field work up to the 23rd of December.

As detailed reports of all surveys and inspections performed have been given, a general summary in the order of instructions received will be found attached in schedule form. The work is divided into six classes, viz., drains, cross sections for bridges, new roads, road diversions, changes in surveyed roads and dams.

Your obedient servant,

T. H. WIGGINS,
District Surveyor and Engineer.

DRAINS.

Government drain No. 96 for the drainage of the large marshes lying to the north and east of Yellowgrass.

Government drain No. 141 for lowering the waters of Duck Lake by a drain through the Kamasis or Beady Indian reserve to improve roads and lands.

Government drain No. 60 for improving MacFarlane or Red Deer creek by dredging or ditching through township 48 ranges 25, 26, 27 and 28 west of the second meridian.

A series of levels for proposed drain to drain a slough on the road allowance north of sections 33 and 34 township 17 and east of section 33 township 17 and section 4 township 18 range 27 west of the second meridian and lands adjoining.

CROSS SECTIONS for Bridges.

Across Long creek east of section 10 township 9 range 15 west of the second meridian.

Across Long creek north of section 20 township 8 range 14 west of the second meridian.

Across Wascana creek north of section 19 township 16 range 18 west of the second meridian.

Across branch of Wascana creek east of section 31 township 16 range 18 west of the second meridian.

Across Wascana creek in section 36 township 17 range 21 west of the second meridian.

Across Moose Jaw creek in section 29 township 16 range 26 west of the second meridian.

Across Moose Jaw creek in section 31 township 18 range 24 west of the second meridian.

Across Moose Jaw creek in s.e. $\frac{1}{4}$ section 9 township 16 range 26 west of the second meridian.

Across gully east of the village of Drinkwater in n.e. $\frac{1}{4}$ section 29 township 15 range 23 west of the second meridian.

Across Beaver creek on road allowance north of section 31 township 30 range 4 west of the third meridian.

Across coulee north of section 21 township 17 range 26 west of the second meridian.

Across Rough Bark creek north of section 36 township 9 range 18 west of the second meridian.

Across Moose Jaw creek in section 29 township 16 range 26 west of the second meridian.

Road across Black Strap coulee through section 31 township 32 range 3 west of the third meridian, section 6 township 33 range 3 west of the third meridian and section 36 township 32 range 4 west of the third meridian.

Road through sections 36 and 31 township 30 range 4 west of the third meridian and sections 5 and 6 township 31 range 4 west of the third meridian.

Road through sections 26 and 35 township 13 range 22 west of the second meridian to bridge site over Moose Jaw creek.

Road across the Qu'Appelle valley through sections 30, 31 and 32 township 18 range 24 west of the second meridian and sections 4, 10, 14, 15 and 23 township 19 range 24 west of the second meridian.

Road through east $\frac{1}{2}$ section 18 township 9 range 16 west of the second meridian to cross Yellowgrass marsh.

Road through section 35 township 18 range 25 west of the second meridian, section 6 township 19 range 24 west of the second meridian and section 1 township 19 range 25 west of the second meridian, across the Qu'Appelle valley.

Road east and west of the village of Drinkwater through the n.e. $\frac{1}{4}$ section 29 and the s.w. $\frac{1}{4}$ section 32 township 15 range 23 west of the second meridian.

Road through sections 28, 29 and 33 township 19 range 21 west of the second meridian.

Road through section 5 township 10 range 17 west of the second meridian.

ROAD DIVERSIONS.

Diversion in s.w. $\frac{1}{4}$ section 13 township 20 range 21 west of the second meridian.

Diversion to bridge site in s.e. $\frac{1}{4}$ section 9 township 16 range 26 west of the second meridian.

Diversion to avoid crossing Moose Jaw creek in n.w. $\frac{1}{4}$ section 10 township 16 range 26 west of the second meridian.

Diversion in section 29 township 18 range 21 west of the second meridian.

Diversion in east $\frac{1}{2}$ section 36 township 17 range 21 west of the second meridian.

Diversion in n.e. $\frac{1}{4}$ section 36 township 9 range 18 west of the second meridian.

Diversion in section 19 township 16 range 18 west of the second meridian.

Diversion in section 19 township 14 range 22 west of the second meridian.

Diversion in section 29 township 14 range 22 west of the second meridian.

Diversion in section 35 township 11 range 19 west of the second meridian.

Diversion in section 29 township 16 range 26 west of the second meridian.

Diversion in section 11 township 18 range 21 west of the second meridian to bridge site.

CHANGES in Surveyed Road.

Road through south $\frac{1}{2}$ section 9 township 33 range 4 west of the third meridian.

Road through section 20 township 8 range 14 west of the second meridian.

Road through s.w. $\frac{1}{4}$ section 18 township 20 range 20 west of the second meridian.

Road in section 6 township 17 range 25 west of the second meridian and section 1 township 17 range 26 west of the second meridian.

Road in section 33 township 19 range 21 west of the second meridian, (inspection and report no change advisable).

DAMS.

Report and sketch plan of dam in S.E. $\frac{1}{4}$ section 11 township 15 range 26 west of the second meridian and lands affected in reference to road thereto.

Cross sections and report of proposed dam at the outlet of Long lake for relief of hay meadows in valley below.

In addition to the foregoing I have examined and reported upon the improvement of the road allowances across the alkali beds north and east of Caron station, and have furnished the department with several profiles of roads where heavy grades are met with in reference to their improvement. I also made report of a suitable place for crossing of the Q.L.L. & S.R. & S. Co. at Hanley.

Qu'Appelle Public Works District.

SOUTH QU'APPELLE, December 31st, 1904.

JOHN STOCKS, Esq.,

Deputy Commissioner of Public Works,

Regina, Assa.

SIR,—I beg to submit the following report on surveys and inspections made in Qu'Appelle Public Works District during the past season.

The heavy snowfall of last winter resulted in unusually high water when spring opened, the Qu'Appelle lakes and river reaching a higher level than at any previous time within the recollection of the oldest settler. In consequence of this many bridges were seriously damaged.

High water prevailed generally throughout the district and a large number of diversion surveys, to avoid ponds and sloughs on the road allowances were rendered necessary in order to provide roads which would be available at all seasons: before making these surveys examinations were generally made to ascertain the feasibility of drainage but in many cases it was found that the cost of such work would be altogether out of proportion to the cost of the land required for right of way to avoid these obstructions and where usually a high and dry roadway could be constructed at small expense. The appended schedules give the location of the various surveys and other particulars relating to them.

DRAINAGE.

The schedule under this heading gives locations of the drains laid out for construction with other particulars also a list of examinations made to determine the feasibility of drainage in certain cases.

The most important drain staked out and constructed during the past season is one connecting Leech lake with the Little White Sand river in township 24 range 4 west of the second meridian.

The total length of excavation one mile, bottom width six feet and side slope $1\frac{1}{2}$ to 1. The excavation was completed to Leech lake in November last when the water commenced flowing out. The lake being very shallow it is necessary to extend the excavation into its bed for some distance in order to obtain a depth of $2\frac{1}{2}$ feet of water, which is the estimated reduction in level that will be effected by the construction of this drain.

The work of excavating in the lake bed was found rather difficult but by the use of rubber boots the men were able to extend the excavation until a depth of 18 inches of water was reached and after the ice had set it was intended to complete the work.

Leech lake is connected with Crescent lake to the south and Ronsays lake to the north, the latter being also connected with Pebble lake by means of a drain laid out by me in 1899.

The water in all these lakes appears to stand at the same level at the present time, there being no perceptible current in the connecting channels so that in the course of a year or two the drain which is now in operation should effect a general lowering of the water level about $2\frac{1}{2}$ feet and thereby reclaim a vast area of fine hay meadow which for several years has been flooded.

It may be mentioned that a few years ago all these lakes were nearly dry and to bring water into them a drain was laid out and constructed under the supervision of Mr. Child, C.E., in 1898, to divert water from Insinger creek to Rousays lake from that source, but owing to the unusually wet seasons of recent years more water had been brought down than is required and with your permission I have had this water shut off for the present by the construction of a small earth dam, so that all the water from Insinger creek will now follow its old channel.

SCHEDULE of New Roads Surveyed.

Along division line between east and west halves of sections 2 and 11 township 19a range 10 west of the second meridian.

In sections 22, 27 and 28 township 18 range 9 west of the second meridian being right of way for graded road on north side of Qu'Appelle valley known as McLean hill.

Along south side of C.P.R. between Grenfell and Summerberry in sections 7, 12, 10 and 11 township 17 ranges 7 and 8 west of the second meridian.

Along centre line between east and west halves of section 3 township 16 range 7 west of the second meridian leading to Skilliter's crossing of Pipestone creek.

Along north boundary of sections 17 and 18 township 16 range 6 west of the second meridian leading towards Grenfell.

In sections 16 and 21 township 28 range 4 west of the second meridian leading to bridge site on Little White Sand river.

In sections 6, 7 and 8 township 19a range 10 and in s.w. $\frac{1}{4}$ section 4 township 19 range 10 west of the second meridian right of way for graded road known as Campbell hill on north side of Qu'Appelle valley.

In s.e. $\frac{1}{4}$ section 26 township 20 range 11 west of the second meridian leading to Abernethy.

In sections 19 and 30 township 22 range 14 west of the second meridian being across the valley of Jumping creek.

Along north side of sections 16 and 17 township 16 range 7 west of the second meridian leading from Skilliter's crossing to Grenfell.

In s.e. $\frac{1}{4}$ section 26 township 26 range 5 west of the second meridian along north side of right of way of Manitoba and N.W. railway leading to Orcadia.

In section 14 township 28 range 16 west of the second meridian being right of way for graded road leading to Kutawa.

In section 31 township 12 range 11 west of the second meridian along south limit leading to Tiran.

Along east limit of west $\frac{1}{2}$ of section 10 township 11 range 11 leading to Filmore.

From Proctor's bridge to White Sand river between sections 1 and 2 township 25 range 5 west of the second meridian to east limit of section 13 township 25 range 5 west of the second meridian connecting with ford on White Sand river in section 17 township 28 range 4 west of the second meridian.

SCHEDULE of Road Allowance Diversions.

From Qu'Appelle and Wood Mountain trail in sections 28 and 33 township 17 range 15 west of the second meridian and in sections 7 and 17 township 18 range 14 west of the second meridian to avoid ponds and sloughs.

In section 22 township 16 range 16 west of the second meridian right of way across dam near Ezra Shaw's.

In section 33 township 17 range 16 west of the second meridian to avoid marsh on road allowance to north.

In sections 28 and 33 township 17 range 16 west of the second meridian to avoid ponds on road allowance to east of sections 29 and 32.

In sections 4 and 5 township 18 range 16 west of the second meridian to avoid marshes on road allowance between these sections.

In section 6 township 18 range 16 west of the second meridian to avoid pond on road allowance to east of section 1 range 17.

In section 31 township 17 range 16 west of the second meridian to avoid marsh on road allowance to the north.

In section 21 township 17 range 16 west of the second meridian to avoid marsh on road allowance to the north.

In section 24 township 19 range 16 west of the second meridian right of way for graded road to avoid marsh.

In section 10 township 20 range 16 west of the second meridian to avoid marsh on road allowance to east.

In section 7 township 16 range 14 west of the second meridian and in sections 12, 19 and 25 township 16 range 15 west of the second meridian to avoid ponds and marshes on road allowances between ranges 14 and 15.

In section 2 township 18 range 14 west of the second meridian and section 35 township 17 range 14 west of the second meridian to avoid ponds on road allowances between these sections.

In section 7 township 18 range 14 west of the second meridian to avoid marshes on road allowances to the east.

In section 19 township 19 range 14 west of the second meridian to avoid creek on road allowance to east of section 24 range 15.

In west $\frac{1}{2}$ section 9 township 19a range 10 west of the second meridian to avoid pond on road allowance to north.

In section 1 township 19 range 10 west of the second meridian to avoid lake on road allowance to east of section 2.

In section 24 township 20 range 12 west of the second meridian to avoid marsh on road allowance to east.

In section 5 township 20 range 10 west of the second meridian to avoid marsh on road allowance to north of section 32 township 19.

In section 15 township 18 range 9 west of the second meridian leading to bridge over Qu'Appelle river at Pipher's.

In section 33 township 20 range 9 west of the second meridian to avoid ravine on road allowance to east of section 32.

In s.e. $\frac{1}{4}$ section 5 township 21 range 9 west of the second meridian to provide suitable crossing of valley of Pheasant creek.

In s.e. $\frac{1}{4}$ section 21 township 20 range 8 west of the second meridian to avoid pond on road allowance to east.

In section 9 township 20 range 8 west of the second meridian to avoid pond and marsh on road allowance to north.

In sections 13 and 14 township 20 range 8 west of the second meridian to avoid a marsh on road allowance between these sections.

In sections 2, 11, 15, 22 and 26 township 20 range 8 west of the second meridian to avoid ponds and marshes on road leading to Neudorf.

In section 4 township 20 range 8 west of the second meridian to avoid pond on road allowance to north.

In section 3 township 20 range 8 west of the second meridian to avoid pond on road allowance to north.

In n.e. $\frac{1}{4}$ section 3 and s.w. $\frac{1}{4}$ section 10 township 20 range 8 west of the second meridian to avoid ponds and marshes on road allowance between these sections.

In sections 14, 15 and 23 township 19 range 8 west of the second meridian to avoid ponds and marshes on road allowance between sections 14 and 15 and east of 22.

In sections 14 and 23 township 17 range 8 west of the second meridian to avoid hay marsh on road allowance to east of sections 22 and 15.

In section 36 township 14 range 8 west of the second meridian to avoid marshes on road allowances to north and east.

In section 24 township 16 range 7 west of the second meridian to avoid marsh on road allowance to east.

In section 15 township 16 range 7 west of the second meridian to avoid marsh on road allowance to east of section 16.

In section 27 township 16 range 7 west of the second meridian to avoid marsh on road allowance to north of section 22.

In n.e. $\frac{1}{4}$ section 20 township 16 range 7 west of the second meridian to avoid pond on road allowance to the east.

In sections 5, 6, 7, 18 and 19 township 5 range 7 west of the second meridian to avoid ponds and marshes on road leading to Grenfell.

In sections 19 and 31 township 14 range 7 west of the second meridian to avoid marshes on road allowances to east of sections 24 and 36 township 14 range 8 west of the second meridian.

In section 5 township 17 range 16 west of the second meridian to avoid marsh on road allowance to north of section 32 township 16 range 16 west of the second meridian.

In section 30 township 16 range 6 west of the second meridian to avoid marsh on road allowance to east of section 25 township 16 range 7 west of the second meridian.

In section 31 township 16 range 6 west of the second meridian to avoid pond on road allowance to north.

In sections 15, 21, 22 and 27 township 16 range 6 west of the second meridian to avoid lake and pond on road leading to Oakshela.

In sections 34 and 36 township 25 range 6 west of the second meridian to avoid marshes on road allowance to north.

In s.e. $\frac{1}{4}$ section 4 township 26 range 5 west of the second meridian to avoid marsh on road allowance to north of section 33 township 25 range 5 west of the second meridian.

In section 23 township 16 range 5 west of the second meridian to avoid muskeg on road allowance to north.

In section 15 township 16 range 5 west of the second meridian to avoid marsh on road allowance to east of section 16.

In section 27 township 25 range 4 west of the second meridian to avoid marsh on road allowance to north.

In sections 28 and 29 township 25 range 4 west of the second meridian to avoid marshes on road allowance between these sections.

In section 33 township 25 range 4 west of the second meridian to avoid pond on road allowance to north of section 28.

SCHEDULE of Re-surveys.

In west $\frac{1}{2}$ section 8 township 19 range 7 west of the second meridian to change location of valley road at Johann Armbruster's.

In section 32 township 15 range 7 west of the second meridian to secure right of way for road as graded.

In N.E. $\frac{1}{4}$ section 24 township 15 range 6 west of the second meridian to re-mark survey of road leading to bridge over Pipestone creek at John Taylor's.

In section 25 township 19 range 7 west of the second meridian in Qu'Appelle valley at Simpkinson's.

In N.E. $\frac{1}{4}$ section 8 township 17 range 7 west of the second meridian for right of way to Grenfell dam.

SCHEDULE of Reports on Examinations of Roads.

Regarding change of location of Qu'Appelle valley road at Johann Armbruster's.

Regarding surveyed road in S.W. $\frac{1}{4}$ section 17 township 16 range 7 west of the second meridian.

Regarding proposed survey of Fort Pelly-Qu'Appelle trail.

Regarding proposed survey to connect Yorkton-Touchwood road on north boundary of section 23 township 25 range 6 west of the second meridian.

Regarding proposed survey from Yorkton-Touchwood road north of section 31 township 25 range 5 west of the second meridian to Insinger creek.

Regarding surveyed road in section 11 township 26 range 4 west of the second meridian.

Regarding proposed change of location of surveyed road in N.E. $\frac{1}{4}$ section 16 township 25 range 4 west of the second meridian. An examination for bridge site over Qu'Appelle river at Fort Qu'Appelle with cross section of channel.

Regarding survey of diversion across C.P.R. track at McLean station in township 18 range 14 west of the second meridian.

SCHEDULES of Drains laid out, etc.

Location and right-of-way survey for drain in section 23 township 16 range 5 west of the second meridian to drain muskeg in section 26 into Weed lake so as to permit construction of road in section 23.

Location drain in section 9 township 17 range 10 west of the second meridian to permit construction of road on road allowance to north of section 4.

Location of drain in section 2 township 20 range 8 west of the second meridian to permit construction of road allowance to east of section 3.

Location and right of way survey for drain in sections 23 and 26 township 24 range 4 west of the second meridian for drainage of Leech lake into the Little White Sand river.

Examination and report on proposed drainage in section 26 township 20 range 11 west of the second meridian.

Examination and report on proposed drainage in section 24 township 20 range 12 west of the second meridian.

SCHEDULE of Reservoirs surveyed.

Grenfell reservoir in N.E. $\frac{1}{4}$ section 8 township 17 range 7 west of the second meridian.

In S.W. $\frac{1}{4}$ section 11 township 19 range 11 west of the second meridian.

In north $\frac{1}{2}$ section 29 township 19 range 14 west of the second meridian.

In consequence of recent railway extensions through the district the outlying portions are becoming rapidly settled and to provide satisfactory roads a large number of diversion and drainage surveys will be required, particulars as to more important of these will be sent you at an early date.

Your obedient servant,

WM. T. THOMPSON,
District Engineer and Surveyor.

Public Works District of East Assiniboia.

MOOSOMIN, December 31st, 1904.

JOHN STOCKS, Esq.,

Deputy Commissioner of Public Works,
Regina, N.W.T.

SIR,—I beg to submit the following report of work completed in the Public Works District of East Assiniboia during the season of 1904.

My appointment to the surveys branch was made the 1st of April of this year, and during that month I was in the department at Regina. Owing to the late spring and poor roads it was the middle of June before my party took the field, but from that time until the middle of November only a few days were lost on account of rain. My time has been taken up with diversions around sloughs, crossings of valleys, draining examinations and assisting the councillors wherever help was needed.

All surveys that were important with the exception of three have been completed and reported, though there are quite a number still on hand. The surveys required for this district were very much behind as my list included some from 1902 and 1903 besides the current work for 1904. I have not had time this season to go thoroughly into the bridges as my time was taken up more particularly with surveys, though next season I shall devote more time to that part of my work.

New Roads and Diversions surveyed during 1904.

Section 34 township 1 range 6 west of the second meridian new road to allow access to bridge over Souris river.

S.w. $\frac{1}{4}$ section 15 township 3 range 1 west of the second meridian diversion around head of ravine.

N.E. $\frac{1}{4}$ section 33 township 7 range 1 west of the second meridian new road, road allowance very wet.

Sections 9 and 10 township 9 range 1 west of of the second meridian diversion to avoid sloughs on road allowance.

Sections 35 and 2 townships 10 and 11 range 1 west of the second meridian diversion to avoid sloughs on road allowance.

Sections 25 and 36 township 10 range 2 west new road to open a road from High View to Manor.

West $\frac{1}{2}$ section 27 township 11 range 30 west new road to allow crossing of Pipestone creek.

Sections 28 and 33 township 11 range 31 west diversion to avoid sloughs on road allowance.

Sections 24 and 13 township 11 range 3 west of the second meridian diversion to avoid sloughs on road allowance.

Sections 5 and 8 township 13 range 31 west diversion to avoid sloughs on road allowance.

Sections 9 and 16 township 13 range 31 west diversion to avoid sloughs on road allowance.

Sections 21 and 28 township 13 range 31 west diversion to avoid slough on road allowance.

S.E. $\frac{1}{4}$ section 12 township 13 range 30 west diversion to avoid sloughs on road allowance.

Sections 14, 15, 22 and 23 township 13 range 1 west of the second meridian diversion to afford crossing of creek.

N.w. $\frac{1}{4}$ section 4 township 14 range 1 west of the second meridian diversion to allow access to bridge on Pipestone.

Section 33 township 14 range 3 west of the second meridian new road to allow access to road to Whitewood.

Section 3 township 15 range 3 west of the second meridian new road to allow access to bridge over Pipestone.

Sections 4 and 9 township 15 range 4 west of the second meridian, new road, road allowance in muskeg.

East $\frac{1}{2}$ section 33 township 15 range 33 west diversion to avoid slough on road allowance.

N.w. $\frac{1}{4}$ section 10 township 16 range 33 west diversion to avoid slough on road allowance.

North $\frac{1}{2}$ section 19 township 17 range 1 west of the second meridian diversion to avoid slough on road allowance.

S.w. $\frac{1}{4}$ section 14 township 17 range 2 west of the second meridian diversion to avoid slough on road allowance.

Sections 16 and 17 township 17 range 2 west of the second meridian diversion to allow crossing of Squaw Head creek.

Section 7 township 18 range 2 west of the second meridian new road to allow crossing of Qu'Appelle river.

N.w. $\frac{1}{4}$ section 20 township 18 range 4 west of the second meridian diversion to allow access to Cotham bridge.

Sections 9 and 16 township 18 range 32 west new road crossing Qu'Appelle valley.

Sections 34 and 27 township 18 range 33 west diversion crossing of Little Cut Arm at Hazelcliffe.

In sections 3 and 4 township 19 and section 9 township 19a range 3 west of the second meridian diversion to afford a feasible crossing of creek.

N.E. $\frac{1}{4}$ sections 4 and 9 township 19 range 2 west of the second meridian diversion to avoid sloughs on road allowance.

N.w. $\frac{1}{4}$ section 16 township 19 range 1 west of the second meridian diversion to avoid sloughs on road allowance.

Between N.w. $\frac{1}{4}$ and S.w. $\frac{1}{4}$ section 28 township 19 range 1 west of the second meridian new road to afford access to town of Esterhazy.

In sections 25, 26, 35 and 36 township 19 range 32 west new road crossing of Big Cut Arm creek.

In sections 25 and 24 township 21 range 1 west of the second meridian new road crossing of the Big Cut Arm creek at Kinbrae.

In north $\frac{1}{2}$ section 1 township 23 range 2 west of the second meridian diversion to avoid slough on road allowance.

N.w. $\frac{1}{4}$ section 17 township 23 range 1 west of the second meridian diversion to give better crossing of slough on road allowance.

West $\frac{1}{2}$ section 24 township 24 range 2 west of the second meridian diversion to avoid slough on road allowance.

In east $\frac{1}{2}$ section 24 township 25 range 2 west of the second meridian diversion to avoid slough on road allowance.

In N.E. $\frac{1}{4}$ section 9 township 9 range 1 west of the second meridian diversion to avoid slough on road allowance.

In S.W. $\frac{1}{4}$ section 29 township 17 range 2 west of the second meridian diversion to avoid slough on road allowance.

EXAMINATIONS.

In north $\frac{1}{2}$ section 2 township 23 range 1 west of the second meridian examination to find possibility of straightening road.

On north boundary section 8 township 14 range 3 west of the second meridian examination and report.

In S.W. $\frac{1}{4}$ section 16 township 10 range 1 west of the second meridian examination and report.

In section 13 township 30 range 3 west examination and report.

In east boundary section 23 township 1 range 18 west of the second meridian examination and report.

In N.W. $\frac{1}{4}$ section 9 township 18 range 32 west examination and report creamery site.

DRAINS Surveyed during Season of 1904.

In S.E. $\frac{1}{4}$ section 16 township 9 range 1 west of the second meridian to drain slough on road allowance.

In s.e. $\frac{1}{4}$ section 9 township 9 range 1 west of the second meridian to drain slough on road allowance.

In n.e. $\frac{1}{4}$ section 9 township 12 range 1 west of second meridian to drain slough on road allowance government drain No. 190.

N.w. $\frac{1}{4}$ section 26 township 12 range 1 west of the second meridian to drain slough on road allowance government drain No. 189.

In s.w. $\frac{1}{4}$ section 27 township 13 range 2 west of the second meridian to drain slough on road allowance.

In north $\frac{1}{4}$ section 20 township 13 range 31 west to drain slough on road allowance and adjoining sections.

In sections 4 and 32 townships 13 and 12 range 21 west to drain slough on road allowance and adjoining sections.

In n.e. $\frac{1}{4}$ section 6 and n.w. $\frac{1}{4}$ section 5 township 19 range 1 west of the second meridian to drain lake on road allowance.

In n.w. $\frac{1}{4}$ section 8 township 22 range 32 west to drain slough on road allowance.

In s.w. $\frac{1}{4}$ section 19 township 24 range 1 west of the second meridian to drain slough on road allowance.

EXAMINATIONS and Levels Run.

In section 10 township 10 range 1 west of the second meridian levels given to councillor re drainage of sloughs on road allowance.

In s.w. $\frac{1}{4}$ section 28 township 19 range 1 west of the second meridian examination of culvert under C.P.R. track and levels taken.

On north boundary section 1 township 23 range 2 west of the second meridian levels taken to show outlet of Saltcoats lake through culvert under C.P.R. track.

In section 36 township 23 range 2 and section 19 township 23 range 1 west of the second meridian levels run for drainage of several sloughs along road allowance.

RESERVOIRS Surveyed during Season 1904.

In section 35 township 13 range 31 west profile and plan of dam and sluiceway.
In section 29 township 23 range 31 west survey of reservoir and ditch in connection.

In section 28 township 21 range 31 west examination and report.

CROSS Sections.

In section 12 township 12 range 31 west cross section for lengthening bridge.

On n.w. $\frac{1}{4}$ section 31 township 13 range 32 west cross section for new bridge.

In section 10 township 18 range 33 west sketch plan for extension and raising.

In section 9 township 18 range 32 west cross section of Qu'Appelle river.

In section 20 township 18 range 4 west of the second meridian cross section of Qu'Appelle river.

In section 26 township 19 range 32 west cross section of Big Cut Arm creek.

In section 27 township 18 range 33 west cross section of Little Cut Arm creek

Your obedient servant,

H. K. MOBERLY,
District Engineer and Surveyor.

Saskatchewan Public Works District.

PRINCE ALBERT, *December 31st, 1904.*

JOHN STOCKS, Esq.,

District Commissioner of Public Works,

Regina, N.W.T.

SIR,—During the season I have performed all the surveys and investigations ordered except two, one of which came too late, and the other I had to report on before performing the survey. In addition to these I have made such other surveys and investigations as I found were required while on the ground, and going from one locality to another. On the whole the season has been very favourable, not much rain and less winds than usual,

The survey of part of the trail from Prince Albert towards Montreal lake, some 30 miles, was my largest work. Next in extent was retracing 10 miles of the trail from Saskatoon towards Battleford. New roads leading into Melfort required over seven miles of survey. These were urgently required, as the road allowances were singularly unsuitable. Most of the right of way will be given free of cost. The public for some years have been using these routes in anticipation of the survey. The survey to connect leading roads with Isbister's ferry, about six miles, assures an uninterrupted route from Prince Albert easterly to Coxby-Fort a La Corne, etc. About four miles of survey of roads at the town of Tisdale section 30 township 44 range 14 west of the second meridian, is for substitutes for road allowances, which were scarcely practicable. The right of way for nearly all of which will be given free. All of the foregoing are in the schedule annexed.

No engineering difficulties were encountered but the ever increasing difficulty of finding monuments of the original surveys and the growth of timber and scrub makes the survey work more arduous and slower every year. Indeed there is but little of the true prairie left.

Several ditches were laid out. Plans, profiles, estimates, etc., were made and some reports sent in while on the route. On every hand I find more drainage being done than formerly. It is being recognised by the people that it is a vital part of road making.

With the increased number of settlers, the statute labour of each year is doing much to improve the roads, more especially the worst places. The department has taken means to promptly repair small bad breaks where such are on leading roads. This is giving great satisfaction.

Ferries.

The unexpected and unprecedented sudden breaking up of the rivers with much higher water did some damage, as might be expected, to some of the ferries, notably the Ibister ferry and Adams ferry. These were reported on and so promptly repaired that there was scarcely any interruption of the public travel.

I am now working at the plans and field notes of my season's work. These will be completed in good time as per regulations. Reports will also be sent in during the winter on drains with profiles, estimates, etc.

When the Canadian Northern is completed to Battleford (it is about completed now to the North Saskatchewan river), new roads or improvements on road allowances to reach the new stations may be required. The same results will follow the completion of said railway from Melfort to Prince Albert (75 miles). The general effect of such railways cannot at present be fully anticipated.

All of which is respectfully submitted.

Your obedient servant,

CYRUS CARROLL, D.L.S.,
District Engineer and Surveyor.

SCHEDULE of Surveys performed in District of Saskatchewan, 1904.

ROAD Diversions.

On the east side of section 30 township 47 range 26 west of the second meridian, to avoid a slough and two crossings of McFarlane's creek.

On east side of section 21 township 47 range 27 west of the second meridian, to avoid a slough,

On N.E. $\frac{1}{4}$ section 19 and N.W. $\frac{1}{4}$ section 20 township 42 range 5 west of the third meridian, to avoid a lake.

East of section 35 township 43 range 5 west of the third meridian and section 2 township 44 range 5 west of the third meridian, to avoid a slough.

On east side of sections 3 and 10 township 47 range 26 west of the second meridian, to avoid a slough.

On north side of section 22 township 42 range 3 west of the third meridian, to avoid sloughs.

On east side of section 19 township 36 range 6 west of the third meridian, to avoid a slough.

On east side of river lot No. 25, Prince Albert settlement, to avoid a slough.

NEW ROADS.

On north side section 16 township 46 range 23 west of the second meridian, to connect trail with road allowances.

Through sections 16, 15, 14, 13 and 12 township 48 range 24 west of the second meridian and section 25 township 48 range 24a west of the second meridian, to connect roads and Isbister's ferry.

Extension of road on east side of the Q. L. L. and S. R. and S. Co.'s Ry. with connection to streets in the town of Rosthern S.W. $\frac{1}{4}$ section 35 township 42 range 3 west of the third meridian.

Between the north and south halves of section 30 township 44 range 14 west of the second meridian, between the N.E. and S.E. quarters section 25, also between N.E. and N.W. quarters section 25 and east and west halves section 36 township 44 range 15 west of the second meridian, to connect with townsite of Tisdale on section 1 township 45 range 15 west of the second meridian (right of way given).

Through sections 6 and 7 township 45 range 21 west of the second meridian, to avoid a slough.

Along east side of railway section 33 township 36 range 5 west of the third meridian, to connect roads with the town of Saskatoon.

North side of sections 1, 2, 3 and 4 township 45 range 19 west of the second meridian, substituted for bad road allowances, also new road on north side of sections 5 and 4 and 6 township 45 range 18 west of the second meridian, substituted for inconvenient road allowances and to avoid crossing of creek (right of way mostly given for the whole of this survey).

North $\frac{1}{4}$ section 11 township 45 range 4 west of the third meridian, to connect trail from Duck lake with Carleton trail.

OLD TRAILS.

From Prince Albert, towards Montreal lake, through townships 49, 50, 51 and 52 to the 14th base line, total distance about 30 miles.

From Saskatoon towards Battleford; this was retracing old surveyed trail, 10 miles.

INVESTIGATIONS.

Investigation and retracing east side of section 13 township 49 range 24 west of the second meridian, diversion not recommended.

Investigation and retracing road allowance on east side section 33 township 44 range 20 west of the second meridian, and as to surveying road through said section.

Investigation and retracing Carleton trail through section 21 township 47 range 27 west of the second meridian.

Investigation as to advisability of survey of a trail near the river north of Saskatoon, not recommended.

Investigation as to need of a road surveyed in section 12 township 45 range 22 west of the second meridian, reported adversely.

Investigation as to making road on east side of river lot No. 25, Prince Albert settlement, estimate and report made.

DRAINS.

Drain No. 192 section 14 township 45 range 17 west of the second meridian, survey levels, profile and report, as to drainage of big slough on road allowances.

Survey on section 24 township 48 range 25 west of the second meridian, outlet drain, levels, profile and report; drain made.

Levels, profile and report for drainage of big slough section 36 township 44 range 18 west of the second meridian, township boundary.

Levels, profile and estimate for drain section 16 township 45 range 21 west of the second meridian, to remove water from roads leading into Kinistino.

Survey, level, profiles, etc., drain section 23 township 49 range 23 west of the second meridian; drain is now made.

ENGINEERING BRANCH.

Staff	Assistant chief engineer.
	1 draughtsman.
	1 clerk in charge of bridge records.
	1 stenographer.
	1 clerk and stenographer in charge of road improvement.
	1 clerk and stenographer charge of fireguard records and ferries.

During the season 247 bridges were constructed, 23 rebuilt and 94 repaired, making a total of 364 bridges dealt with, as against 207 in 1903 and 280 in 1902.

Owing to the severe spring floods in Eastern Assiniboia, several of the older structures were destroyed, thus necessitating the construction of a great number of new bridges.

The office work of this branch shows that 63 plans, 81 contracts, and 360 bills of quantities were prepared and recorded. As stated in our 1903 report a series of standard bridge plans were prepared and they are still being maintained except in cases of larger structures requiring special designs. The increase in the work of this branch during the year will be clearly illustrated by the list of roads, bridges, fireguards, etc.

Construction of Bridges.

Of the 364 bridges dealt with during the season, 247 were new structures, as compared with 127 in 1903. These bridges were constructed according to designs prepared to meet the difficulties existing in different portions of the Territories. Concrete substructures where used have proved very satisfactory, and will undoubtedly as far as possible in future be substituted for timber. The expenditure in connection with the handling of bridges was \$330,615.73 compared with \$191,917.10, last year. An explanation regarding the increase is, that in addition to other bridges, this amount includes the expenditure incurred during the year on the Belly and Old Man river bridges, a sum of which amounting to \$84,235.92, has been reimbursed by the Dominion Government. The usual schedule of bridges constructed, reconstructed and repaired, together with a list of steel bridges is shown below.

SCHEDULE OF Bridges constructed, rebuilt and repaired.

Arm river, section 13 township 24 range 28w2. Grading approaches.

Arm river, sections 10/15 township 23 range 27w2. Grading approaches.

Arm river, section 23 township 24 range 28w2. Construction four 20 ft. spans on pile bents.

Arm river, sections 23/24 township 24 range 28w2. Grading hills leading to bridge.

Arm river, sections 8/9 township 22 range 26w2. Construction three 20 ft. spans on piles.

Assiniboine river, sections 31/32 township 33 ranges 3/4w2. Construction 60 ft. wooden truss with one 20 ft. approach at each end.

Assiniboine river, one mile south-west of Fort Pelly, repairs.

Antler creek, sections 5/6 township 3 range 32w1. Repairs, also one 18 ft. span on pile bents 100 ft. south of main structure.

Amisk creek, sections 19/30 township 49 range 18w4. Grading and filling up approaches.

Bigstone river, section 2 township 47 range 24w4. Construction 44 ft. truss.

Battle river section 33/34 township 44 range 23w4. Grading approaches.

Borwick sloughs, section 32 township 56 range 16w4. Construction.

Beaver creek, sections 4/33 townships 55/56 range 19w4. Repairing approaches.

Beaver creek, sections 12/13 township 55 range 19w4. Repairs.

Beaver creek, sections 5/6 township 56 range 19w4. Repairs.

Beaver creek, sections 11/12 township 56 range 20w4. Construction of 40 ft. truss, 20 ft. span at each end.

Black Mud creek, sections 36/1 townships 50/51 range 24w4. Construction of pile trestle, three 20 ft. spans.

Black Mud creek, sections 7/18 township 50 range 24w4. Construction of 30 ft. truss with 20 ft. span at each end.

Boggy creek, sections 16/17 township 27 range 2w2. Construction of two 18 ft. spans on piles.

Boggy creek, sections 30/25 township 27 ranges 2/3w2. Repairs.

Boggy creek, sections 16/21 township 28 range 3w2. Repairs.

Beaver creek, sections 4/32 townships 30/31 ranges 4w3. Construction of a 16 ft. span on frame bents and sills.

Beaver creek, sections 6/31 township 30/31 range 4w3. Repairs, adding 20 ft. span to each end and moving bridge.

Beaver creek, sections 2/3 township 16 range 30w1. Construction two 20 ft. spans on pile bents.

Big river, township 52 range 8w3. Grading approaches.

Burnt lake trail, sections 9/16 township 38 range 28w4. Construction of two 20 ft. spans.

Blindman river, sections 21/28 township 40 range 1w5. Reconstruction.

Branch Pipestone river, sections 29/32 township 47 range 24w4. Construction three 20 ft spans on pile bents.

Blindman river, sections 19/30 township 42 range 2w5. Construction 60 ft. steel Warren truss. 20 ft. pile approach to one end two 20 ft. spans at other end.

Battle river, sections 36/1 townships 44/45 range 23w4. Construction 80 ft. steel truss with 20 ft. pile approach at each end.

Bennet's creek, sections 12/13 township 8 range 5w2. Removing bridge to this location, put in on same bent adding 16 ft. bent making length 32 ft.

Bow river, sections 34/35 township 25 range 4w5. Raising bridge 2 ft.

Bow river, Morley. Repairs.

Blackstrap coulee, section 6 township 33 range 3w3. Construction one 20 ft. span on piles.

Blackstrap coulee, section 36 township 32 range 4w3. Construction one 20 ft. span on piles.

Crooked creek, sections 1/2 township 30 range 4w5. Construction 20 ft. span on pile bents.

Conlee north of Morley, section 1 township 25 range 4w5. Reconstruction 20 ft. span on pile bents.

Cook's creek, sections 27/22 township 7 range 1w2. Construction 16 ft. pile bent on sills.

Cook's creek, sections 21/22 township 7 range 1w2. Repaired; 14 ft. span added to each end.

Crooked creek, sections 4/5 township 8 range 4w2. Construction three 20 ft. spans pile bridge.

Crooked creek, sections 9/16 township 8 range 4w2. Construction two 18 ft. spans pile bridge.

Creek, sections 28/33 township 2 range 26w4. Construction 20 ft. span pile bridge.

Creek, sections 2/35 townships 19/20 range 3w5. Reconstruction.

Coulee, sections 23/14 township 20 range 1w5. Repaired.

Creek, section 5 township 35 range 28w4. Construction 20 ft. pile span.

Creek, section 8 township 35 range 28w4. Construction 20 ft. pile span.

Creek, townships 32/33 range 27w4. Construction two 20 ft. pile spans.

- Carrot river, sections 7/8 township 45 range 21w2. Grading approaches.
- Creek, sections 2/3 township 26 range 36w2. \$25.00 expended in repairs.
- Creek, sections 35/2 townships 45/46 range 21w2. Construction. To be graded L.I.D. in spring.
- Creek, sections 4/5 township 6 range 20w4. Construction of trestle bridge (4 bents).
- Creek, sections 21/28 township 6 range 20w4. Construction of trestle bridge (4 bents).
- Creek, section 14 township 9 range 28w3. Construction 20 ft. pile span.
- Creek, sections 15/22 township 9 range 30w3. Construction three 14 ft. spans.
- Cypress trail, section 1 township 8 range 4w4. Repairs.
- Creek, sections 2/3 township 27 range 29w2. Construction 20 ft. span on frame bents.
- Creek, section 35 township 42 range 3w3. Construction 30 ft. truss on pile substructure.
- Creek, sections 25/30 township 42 ranges 2/3w3. Construction one 20 ft. span on piles.
- Creek, sections 19/30 township 42 range 2w3. Construction one 20 ft. span on piles.
- Creek, sections 25/30 township 20 ranges 26/27w2. Repairs.
- Creek, sections 2/34 townships 26/27 range 28w2. Construction of two 20 ft. pile spans.
- Coulee, sections 14/15 township 17 range 28w2. Construction one 20 ft. pile span.
- Coulee, one mile north of Davison. Construction of one 20 ft. pile span.
- Creek, section 1 township 21 range 13w2. Repairs.
- Creek, section 10 township 19 range 12w2. Construction of 20 ft. span on piles. 16 ft. span at each end on piles.
- Creek, sections 29/30 township 10 range 16w2. Construction of 20 ft. span on piles.
- Creek, section 17 township 9 range 16w2. Construction of 20 ft. span on piles.
- Creek, sections 4/32 townships 10/11 range 16w2. Construction of 20 ft. span on piles.
- Creek, section 20 township 51 range 24w4. Construction of 20 ft. span on piles.
- Creek, sections 29/30 township 54 range 13w4. Construction of two 20 ft. spans on piles.
- Creek, sections 34/35 township 45 range 24w4. Construction of small bridge.
- Creek, sections 25/30 township 13 range 2w2. Construction two 20 ft. pile spans on pile bents.
- Creek, sections 7/8 township 17 range 2w2. Construction one 20 ft. span.
- Creek, sections 1/6 township 13 ranges 32/33w1. Grading approaches.
- Coulee, section 21 township 47 range 24w4. Construction small bridge; additional grading required.
- Creek, sections 13/14 township 12 range 4w2. Construction two 20 ft. spans on pile bents.
- Creek, sections 7/8 township 17 range 3w2. Construction one 20 ft. span on pile bents.
- Creek, sections 19/30 township 13 range 1w2. Construction one 20 ft. span on pile bents.
- Creek, sections 12/13 township 14 range 4w2. Construction one 20 ft. span on pile bents.
- Creek, south of section 5 township 12 range 1w2. Construction one 20 ft. span on pile bents.
- Creek, sections 25/26 township 17 range 9w2. Construction one 16 ft. span on pile bents.
- Creek, sections 9/10 township 30 range 9w2. Construction one 16 ft. span on frame bents.
- Cussed creek, sections 34/3 townships 25/26 range 5w2. Repairs.
- Cussed creek, sections 1/6 township 27 ranges 7/6w2. Construction 20 ft. span on piles.
- Cussed creek, sections 25/30 township 27 ranges 4/5w2. Repairs.
- Coulee, section 36 township 32 range 4w5. Construction four 20 ft. spans on pile bents.
- Creek, section 5 township 26 range 1w5. Construction 20 ft span on pile bents.
- Cottonwood creek, sections 1/36 townships 16/17 range 22w2. Construction two 20 ft. spans on pile bents.
- Creek, sections 14/15 township 13 range 1w2. Construction two 20 ft. spans on pile bents.
- Cottonwood creek, sections 24/25 township 17 range 22w2. Construction three 20 ft. spans on pile bents.

Cussed creek, sections 11/12 township 27 range 6w2. Construction two 20 ft. spans on pile bents.

Cussed creek, section 1 townships 26/27 ranges 6/7w2. Repairs.

Cussed creek, sections 33/34 townships 26/27 ranges 5/2w2. Repairs.

Coulee (Bull Horn), sections 28/33 township 2 range 26w4. Construction one 20 ft. span on pile bents.

Creek, sections 4/9 township 46 range 21w4. Construction three spans, two of 16 ft. each and one of 18 ft. all on pile bents.

Creek, sections 14/15 township 13 range 1w2. Construction two 20 ft. spans on pile bents.

Cut Arm creek, sections 24/25 township 21 range 2w2. Repairs.

Coulee, sections 31/5 townships 2/3 range 26w4. Construction one 20 ft. span on piles.

Cussed creek, sections 30/31 township 27 range 4w2. Repairs.

Crow's Nest river, N.W. $\frac{1}{4}$ section 36 township 7 range 4w5. Construction 80 ft. steel truss, 20 ft. span at each end on pile bents.

Crow's Nest river, S.W. $\frac{1}{4}$ section 36 township 7 range 4w5. Construction 80 ft. steel span, 20 ft. span at one end, two 20 ft. at other.

Crow's Nest river, N.W. $\frac{1}{4}$ section 36 township 7 range 4w5. Construction 80 ft. steel truss 20 ft. span at one end and two 20 ft. at other.

Dog Pound creek, section 14 township 31 range 3w5. Construction 50 ft. wooden truss, 2-20 ft. and 1-16 ft approach.

Dog Pound creek, section 2 township 29 range 4w5. Repairs.

Drain No. 4, section 9 township 53 range 24w4. Grading.

Drain No. 4, sections 28/29 township 53 range 24w4. Construction one 16 ft. span on pile bents.

Drain No. 4, section 28 township 53 range 24w4. Construction one 16 ft. span on pile bents.

Dry Wood river, section 17 township 4 range 29w4. Construction 50ft wooden truss with two 20 ft. approaches at one end and one at other.

Devil's creek, section 18 township 28 range 25w2. Construction one 20 ft. span on pile bents.

Drain No. 56, sections 10/15 township 9 range 15w2. Construction three 20 ft. spans on pile bents.

Drain No. 56, N.E. $\frac{1}{4}$ section 10 township 19 range 15w2. Construction one 24 ft. span on pile bents.

Dried Meat creek, sections 15/16 township 45 range 19w4. Construction 30 ft. wooden truss on pile substructures.

Drain No. 141, Carleton trail. Construction one 20 ft. span and spillway.

Dried Meat creek, sections 16/17 township 45 range 18w4. Repairs; grading approaches.

Dry Wood river, sections 17/18 township 4 range 28w4. Construction one 100 ft. steel span and two 20 ft. pile approaches at one end, one 20 foot at other.

Duck creek, sections 7/12 township 33 ranges 10/11w2. Repairs.

Elbow river, sections 4/5 township 24 range 2w5. Construction two 80 ft. steel trusses with one 20 ft. pile approach at the south end and two 20 ft. at north end, and short distance further north structure of 60 ft. wooden truss with 20 ft. pile approach at one end, and four 20 ft. approaches at other end.

Eagle creek, sections 5/32 townships 34/35 range 10w3. Construction three 20 ft. spans on pile bents.

Egg lake, sections 27/28 township 56 range 25w4. Construction two 20 ft. spans on pile bents.

Eight Mile creek, sections 28/33 township 49 range 26w4. Construction three 20 ft. spans on pile bents.

Ebel lake, section 9 township 30 range 9w2. Construction three 20 ft. spans on pile bents.

Fulton's creek, sections 52/53 east side of R.L. 43. Repaired.

Fulton's creek, sections 52/53 east side of R.L. 43. Construction two 16 ft. spans, on pile bents.

Goss creek, sections 26/27 township 24 range 4w5. Construction two 16 ft. spans on pile bents.

Goodridge creek, sections 34/35 township 52 range 25w4. Construction one 20 ft. span on pile bents.

Gap creek, section 32 township 9 range 27w3. Construction two 20 ft. spans on pile bents.

Horse lake creek, sections 22/27 township 29 range 11w2. Construction two 20 ft. spans on pile bents.

Hislop creek, sections 10/15 township 8 range 4w2. Construction two 20 ft. spans on pile bents.

Haynes creek, sections 2/3 township 30 range 24w4. Construction two 20 ft. spans on frame bents.

Insinger creek, sections 26/27 township 28 range 7w2. Construction two 20 ft. spans on pile bents.

Jackfish creek, section 22 township 48 range 17w3. Construction eight 20 ft. spans on piles.

Jamieson coulee, section 15 township 38 range 27w4. Repairs to crossing and cutting down hill.

Jones' creek, sections 4/32 townships 38/39 range 25w4. Construction 20 ft. span on frame bents.

Judd Bray creek, sections 24/19 township 31 ranges 11/12w2. Construction two 20 ft. spans on pile bents.

Knee Hill creek, sections 6/31 townships 33/34 range 26w4. Construction 20 ft. span on pile bents.

Knee Hill creek, sections 5/32 townships 32-33 range 26w4. Construction 20 ft. span on pile bents.

Knee Hill creek, sections 32/5 townships 32/33 range 26w4. Construction 30 ft. wooden truss on pile bents.

Long creek, sections 7/18 township 2 range 12w2. Construction 20 ft. span on pile bents.

Long creek, sections 20/21 township 8 range 14w2. Repairs to approaches.

Lone Pine creek, sections 20/29 township 32 range 28w4. Construction two 20 ft. spans on pile bents.

Lee creek, in the village of Cardston. Construction 100 ft. truss.

Lee creek, section 31 township 2 range 25w4. Construction 50 ft. wooden truss, and four 20 ft. pile approaches.

Branch of Lee creek, section 33 township 2 range 26w4. Construction 20 ft. span on pile bents.

Lightning creek, sections 24/19 townships 7 ranges 31/32w1. Construction three 20 ft. spans on pile bents.

Lightning creek, sections 8/17 township 7 range 31w1. Construction three 20 ft. spans on pile bents.

Lone Pine creek, sections 5/32 townships 32/33 range 28w4. Repairs.

Long creek, sections 19/30 township 13 range 22w2. Construction one 20 ft. span on pile bents.

Lee creek, section 17 township 2 range 26w4. Construction one 16 ft. span on pile bents.

Little Bow river, sections 1/6 township 17 ranges 26/27w4. Construction three 20 ft. spans on pile bents.

Little Cut Arm creek, sections 23/26 township 19 range 1w2. Grading approaches.

Little Bow river, section 5 township 15 range 21w4. Construction 80 ft. steel span on pile substructure.

Little Cut Arm creek, sections 1/6 township 20 ranges 1/2w2. Construction two 20 ft. spans on piles.

Little Cut Arm creek, sections 33/34 township 19 range 1w2. Construction three 20 ft. spans on main creek and one 20 ft. span on south branch, all on pile bents.

Moose Mountain creek, sections 23/24 township 7 range 4w2. Construction 40 ft. truss with three 20 ft. spans at one end and one 20 ft. span at the other.

Moose Mountain creek, sections 28/29 township 7 range 4w2. Repairs.

Moose Mountain creek, sections 2/3 township 7 range 2w2. Construction one 50 ft. truss with four 20 ft. spans on piles.

Moose Mountain creek, sections 9/10 township 11 range 8w2. Construction two 20 ft. spans on piles.

Moose Mountain creek, sections 1/6 township 13 ranges 8/9w2. Construction one 20 ft. span on frame bents, approaches graded.

Mosquito creek, section 30 township 16 range 28w4. Construction 50ft. wooden truss, one 14 ft. span at north end and two 20 ft. spans at south end.

Medicine river, near Tindastoll Creamery. Repairs, tightening truss rods, etc.

Melfort creek, sections 11/14 township 44 range 16w2. Construction two 20 ft. spans on pile bents.

Maple creek, sections 1/2 township 44 range 20w2. Construction one 20 ft. span on pile bents.

Maple creek, sections 15/16 township 45 range 20w2. Construction.

Melfort creek, sections 19/30 township 45 range 18w2. Repairs.

Meeting creek, sections 21/22 township 43 range 20w4. Construction.

Maple creek, section 10 township 9 range 26w3. Construction one 24 ft. span on pile bents.

Maple creek, section 22 township 9 range 26w3. Construction one 20 ft. span on pile bents.

Medicine Lodge coulee, section 12 township 8 range 4w4. Repairs.

Muskeg creek, on trail from Aldina P.O. to Jack Fish lake on Indian Reserve. Repairs.

Muskeg creek, section 5 township 45 range 6w3. Construction six 20 ft. spans on pile bents.

McFarlane creek, sections 12/13 township 46 range 1w2. Construction one 30 ft. truss bridge.

Moose Jaw creek, sections 14/15 township 15 range 25w2. Repairs.

Moose Jaw creek, sections 20/29 township 15 range 24w2. Reconstruction, replacing washed out 30 ft. truss with two 20 ft. spans at each end.

Moose Jaw creek, section 30 township 18 range 24w2. Reconstruction.

Moose Jaw creek, section 13 township 17 range 25w2. Reconstruction.

Moose Jaw creek, sections 4/5 township 17 range 25w2. Repairs and additional pile bent of 20 ft.

Moose Jaw creek, sections 9/10 township 16 range 26w2. Reconstruction.

Moose Jaw creek, sections 35/36 township 15 range 26w2. Repairs.

Moose Jaw creek, section 9 township 10 range 17w2. Grading.

Moose Jaw creek, sections 19/20 township 14 range 22w2. Construction 50 ft. truss and three 20 ft. spans.

Moose Jaw creek, Wood Mountain trail. Construction eight small bridges.

Moose Jaw creek, section 26 township 13 range 22w2. Temporary repairs pending reconstruction.

Moose Jaw creek, sections 3/4 township 12 range 19w2. Repairs.

Moose Jaw creek, sections 3/4 township 15 range 23w2. Repairs.

Moose Jaw creek, sections 29/30 township 15 range 23w2. Repairs to south approach.

Moose Jaw creek, section 20 township 14 range 22w2. Construction 50 ft. wooden truss with three 20 ft. spans.

Moose Jaw creek, sections 33/34 townships 3/4 range 2w2. Construction one 80 ft. steel span on pile piers one 20 ft. approach at each end.

Moose Jaw creek, sections 29/30 township 12 range 20w2. Construction of four 20 ft. spans on pile bents.

Moose Jaw creek, sections 29/30 township 15 range 23w2. Repairs.

Moose Jaw creek, section 31 township 5 range 1w2. Repairs, replacing old 50 ft. truss and additional span of 20 ft.

Moose Mountain creek, sections 14/15 township 14 range 10w2. Grading.

Moose Mountain creek, sections 32/33 township 13 range 9w2. Construction one 20 ft. span.

Mill creek, sections 35/36 township 51 range 23w2. Construction one 20 ft. span on pile bents.

Mill creek, sections 32/33 township 51 range 23w2. Construction one 20 ft. span on pile bents.

Montgomery creek, sections 20/29 township 13 range 3w2. Construction one 20 ft. span on pile bents.

Many Bones creek, sections 15/16 township 15 range 14w2. Construction one 20 ft. span on pile bents.

Many Bones creek, sections 1/6 township 13 ranges 12/13w2. Construction two 20 ft. spans on pile bents.

Many Bones creek, sections 25/30 township 15 ranges 14/15w2. Construction one 20 ft. span on pile bents.

Many Bones creek, sections 3/4 township 16 range 15w2. Construction one 16 ft. span on frame bents.

Nose creek, sections 1/12 township 27 range 1w5. Construction three 20 ft. spans on pile bents.

Nanton creek, sections 20/21 township 16 range 28w4. Construction two 20 ft. spans on pile bents.

North Antler creek, sections 36/6 townships 6/7 ranges 30/31w1. Repairs.

Outlet Gull creek, sections 34/35 township 40 range 1w5. Construction two 20 ft. spans on pile bents.

Old Fort creek, six miles west of Morley. Construction.

Pipestone creek, sections 1/6 township 16 ranges 6/7w2. Construction two 20 foot spans on pile bents.

Pearl creek, section 25 township 10 range 7w2. Repairs.

Pearl creek, sections 4/33 townships 22/21 range 7w2. Construction one 16 ft. span on frame bents.

Pine creek, sections 1/2 township 22 range 1w5. Construction two 20 ft. spans on pile bents.

Pine creek, section 4 township 22 range 1w5. Construction two 20 ft. spans on pile bents.

Pine creek, sections 5/6 township 22 range 1w5. Reconstruction two 20 ft. spans on pile bents.

Phanaon creek, sections 7/8 township 47 range 21w2. Reconstruction one 24 ft. round timber.

Pincher creek, near village of Pincher. Repairs to floor.

Piapot creek, section 24 township 10 range 23w3. Construction 20 ft. span on pile bents.

Pipestone creek, sections 11/12 township 12 range 31w1. Repaired.

Pipestone creek, sections 27/28 township 11 range 30w1. Repairs to approaches.

Pipestone creek, sections 33/34 township 12 range 32w1. Construction two 20 ft. spans on pile bents.

Pipestone creek, sections 2/3 township 16 range 30w1. Construction two 20 ft. spans on pile bents.

Pipestone creek, sections 9/8 township 15 range 4w2. Construction.

Pipestone creek, section 3 township 15 range 3w2. Construction one 16 ft. span on pile bents.

Pipestone creek, section 6 township 15 range 3w2. Construction two 20 ft. spans on pile bents.

Pipestone creek, section 35 township 13 range 1w2. Grading approaches.

Pipestone creek, sections 2/3 township 47 range 23w4. Construction 50 ft. wooden truss.

Pipestone creek, sections 19/24 township 47 ranges 24/25w4. Construction 30 ft. wooden truss, additional grading required in spring.

Porter's dam, sections 23/26 township 17 range 28w2. Construction of bridge and spillway.

Pearl creek, section 25 township 19 range 7w2. Reconstruction of a pile bridge of two 18 ft. spans.

Point aux Pins, sections 13/14 township 54 range 23w4. Construction of three 20 ft. spans on pile bents.

Pot Hole creek, sections 6/7 township 4 range 23w4. Construction one 20 ft. span on pile bents.

Pheasant creek, sections 14/15 township 22 range 9w2. Construction three 24 ft. spans on pile bents.

Pheasant creek, sections 4/5 township 21 range 9w2. Construction two 18 ft. spans on pile bents.

Qu'Appelle river, sections 16/17 township 18 range 33w1. Extension and repairs.

Qu'Appelle river, section 11 township 18 range 33w1. Repairs and reflooring.

Qu'Appelle river, section 6 township 19 range 24w2. Construction four 20 ft. spans on pile bents.

Qu'Appelle river, sections 13/18 township 19 ranges 23/24w2. Construction four 20 ft. spans on pile bents.

Qu'Appelle river, Lebret. Temporary repairs.

Qu'Appelle river, sections 7/8 township 21 range 13w2. Repairs to approaches.

Qu'Appelle river, sections 13/14 township 19 range 23w2. Repairs.

Qu'Appelle river, section 14 township 19 range 22w2. Repairs.

Qu'Appelle river, section 12 township 18 range 3w2. Repairs.

Qu'Appelle river, section 7 township 18 range 2w2. Repairs.

Qu'Appelle river, sections 21/22 township 19 range 7w2. Repairs, temporary.

Qu'Appelle river, sections 10/11 township 19a range 8w2. Repairs to approaches.

Qu'Appelle river, section 19 township 18 range 19w2. Additional 20 ft. span to south end of Ellisboro bridge.

Qu'Appelle river, N.W. $\frac{1}{2}$ section 9 township 18 range 32w1. Construction 80 ft. steel span and approaches.

Qu'Appelle river, sections 22/27 township 19 range 12w2. Construction 80 ft. steel truss and one 20 ft. span at one end.

Qu'Appelle river, section 20 township 18 range 4w2. Construction 80 ft. steel span, two 20 ft. spans at one end.

Qu'Appelle river, section 6 township 19a range 11w2. Construction 18 ft. span on pile bents.

Qu'Appelle river, section 22 township 18 range 9w2. Addition of 20 ft. span to south end.

Ross creek, sections 35/36 township 11 range 3w4. Construction three 20 ft. spans on pile bents.

Road allowance, sections 11/14 township 45 range 23w4. Construction two 20 ft. spans on pile bents.

Ravine, sections 25/30 township 13 range 2w2. Grading approaches.

Rivierre qui Barre, sections 23/26 township 55 range 27w4. Construction 20 ft. span on pile bents.

Ross creek, sections 21/28 township 53 range 21w4. Construction 20 ft. span on pile bents.

Road allowance, sections 19/30 township 17 range 28w2. Construction 20 ft. span on pile bents.

Road allowance, sections 25/30 township 17 ranges 28/29w2. Construction two 20 ft. spans on pile bents.

Ravine, sections 3/34 townships 16/17 range 28w2. Construction one 20 ft. span on pile bents.

Rush lake, Wood Mountain trail. Construction one 16 ft. frame bent.

Little Red Deer river, sections 9/16 township 33 range 3w5. Construction 100 ft. wooden span with two 20 ft. pile approaches.

Second Rat creek, sections 14/15 township 53 range 24w4. Construction 18 ft. span on pile bents.

Little Red Deer river, section 33 township 32 range 4w5. Construction 100 ft. timber truss with pile approaches.

Ross creek, section 5 township 54 range 21w4. Repairs.

Ross creek (branch), sections 4/33 townships 53/54 range 21w4. Construction two small bridges 18 ft. and 20 ft. span on pile bents.

Ross creek, between R.L. 9 and 35 township 54 range 22w4. Reconstruction 40 ft. span on three pile bents.

Road allowance, sections 31/32 township 28 range 4w5. 150 yards grading completed.

Ravine, sections 14/15 township 13 range 1w2. Grading approaches.

Ravine, sections 20/21 township 14 range 15w2. Construction 20 ft. span on frame bents.

Rough Bark creek, sections 35/36 township 9 range 18w2. Construction 20 ft. span on pile bents.

Rose Bud creek, section 15 township 31 range 2w5. Construction 20 ft. span on pile bents.

Sturgeon river, sections 28/29 township 55 range 22w4. Repairs.

Sturgeon river, village of St. Albert. Flooring and other repairs.

Sturgeon river, section 36 township 54 range 25w4. Construction 50 ft. truss with two 20 ft. spans at each end.

South Antler creek, sections 14/15 township 10 range 1w2. Construction two 20 ft. spans on pile bents.

South Antler creek, sections 13/24 township 7 range 33w1. Two 20 ft. spans on pile bents.

South Antler creek, section 2 township 3 range 32w1. Repairs.

South Antler creek, sections 13/18 township 2 ranges 31/32w1. Repairs.

South Antler creek, sections 21/22, township 1 range 31w1. Construction 40 ft. truss south of 60 ft. steel span.

Squaw creek, sections 22/27 township 25 range 29w2. Reconstruction.

Squaw creek, section 23 township 23 range 29w2. Construction two 20 ft. spans on pile bents.

Squaw creek, sections 16/17 township 17 range 2w2. Construction one 20 ft. span on pile bents.

Squaw creek, section 22 township 25 range 29w2. Construction two 20 ft. spans on pile bents.

Squaw creek, sections 23/26 township 17 range 29w4. Construction one 20 ft. span on pile bents.

Spring coulee, townships 3/4, range 23w4. Construction one 20 ft. span on pile bents.

Squaw coulee, sections 11/14, township 17 range 29w4. Construction 20 ft. span on pile bents.

Six Mile coulee, about eight miles from Battleford. Construction 18 ft. span on frame bents.

Small creek, sections 6/31 townships 7/8 range 3w2. Construction two 16 ft. spans on pile bents.

Swift creek, sections 23/26 township 8 range 3w2. Construction one 20 ft. span on pile bents.

Snake creek, sections 23/26 township 21 range 29w4. Repairs.

Slough, sections 5/8 township 19 range 27w4. Construction four 20 ft. spans on pile bents.

Sweetwater creek, sections 12/14 township 45 range 17w2. Grading.

Six Mile coulee, section 10 township 8 range 21w4. Construction one 26 ft. span on pile bents.

Standoff creek, section 17 township 8 range 25w4. Construction one 36 ft. span on pile bents.

Snake Plain creek, township 49 range 6w3. Repairs.

Spring creek, sections 26/27 township 16 range 27w2. Construction 16 ft. span on pile bents.

Snake creek, sections 5/32 townships 33/34 range 32w1. Construction round timber bridge.

Souris river, sections 31/36 township 1 ranges 3/4w2. Repairs.

Stony creek, sections 4/5 township 51 range 24w4. Grading completed.

Stony creek, sections 12/13 township 48 range 21w4. Construction small bridge.

Stony creek, sections 12/13 township 33 range 3w2. Reconstruction 16 ft. span and corduroying approaches.

Big Stone creek, section 2 township 47 range 24w4. Construction 44 ft. truss.

Sorefoot or Wilds creek, sections 28/33 township 26 range 6w2. Construction one 20 ft. span on pile bents.

Spring creek, sections 4/5 township 17 range 26w2. Construction one 20 ft. span on pile bents.

Branch (St. Mary's) river, section 26 township 1 range 25w4. Reconstruction one 16 ft. span bridge.

Stone's coulee, sections 15/16 township 43 range 3w3. Reconstruction.

Stony creek, section 4 township 48 range 20w4. Construction 19 ft. and 18 ft. spans on pile bents.

Souris river, sections 22/23 township 3 range 2w2. Construction 125 ft. steel span, five 20 ft. spans at one end and one at the other.

Souris river, sections 33/34 township 1 range 6x2. Construction 80 ft. steel span with 20 ft. span approach at either end.

Theodore creek, sections 33/34 township 27 range 7w2. Construction two 20 ft. spans on pile bents.

Thunder creek, section 31 township 16 range 26w2. Repairs.

Trail (Old Fort Walsh), section 14 township 9 range 28w3. Construction 20 ft. span on pile bents.

Trail from Macleod to Porcupine Hills. Construction 6 bridges and improvement to trail.

Trail, Fishburn, sections 3/4 township 8 range 26w4. Construction 36 ft. span on pile bents.

Thatch creek, sections 26/27 township 45 range 19w2. Construction 20 ft. span on pile bents.

Three Hill creek, section 35 township 34 range 26w4. Construction 20 ft. span on pile bents.

Tongue creek, sections 16/17 township 19 range 1w5. Construction three 16 ft. spans on pile bents.

Tongue creek, sections 11/14 township 19 range 2w5. Construction two 16 ft. spans on pile bents.

Tongue creek, section 13 township 9 range 29w4. Repairs, reflooring.

Trail from Barr colony east. Construction small bridges and improvement to road.

Trail, Battleford and Saskatoon, section 20 township 42 range 15w3. Construction two 20 ft. spans on pile bents.

Trail, Battleford and Saskatoon, section 36 township 41 range 16w3. Construction one 18 ft. span on pile bents.

Trail, Battleford and Saskatoon, section 16 township 43 range 16w3. Construction two 15 ft. spans on pile bents.

Trail, Cardston to Boundary line, section 16 township 2 range 25w4. Construction one 20 ft. span on pile bents.

Trail, Battleford and Saskatoon, section east of Eight Mile creek. Construction two 15 ft. spans on pile bents.

Wolf creek, sections 10/15 township 42 range 26w4. Construction small bridge.
 Wascana creek, sections 5/6 township 14 range 15w2. Construction one 20 ft. span on pile bents.
 Wascana creek, sections 9/10 township 14 range 16w2. Construction two 16 ft. spans on pile bents.
 Wascana creek, sections 8/9 township 13 range 14w2. Construction one 20 ft. span on pile bents.
 Wascana creek, sections 5/6 township 14 range 15w2. Repairs.
 Wascana creek, sections 24/25 township 13 range 15w2. Grading approaches.
 Wascana creek, sections 31/32 township 17 range 20w2. Repairs.
 Wascana creek, sections 7/18 township 19 range 21w2. Temporary bridge.
 Wascana creek, section 11 township 18 range 21w2. Construction five 20 ft. spans on pile bents.
 Wascana creek, sections 7/18 township 21 range 21w2. Construction 4 20 ft. spans on pile bents.
 Wascana creek, sections 27/28 township 17 range 20w2. Construction five 20 ft. spans on pile bents.
 Wascana creek branch, sections 27/28 township 15 range 17w2. Repairs.
 Wascana creek, sections 19/30 township 16 range 18w2. Construction four 20 ft. spans on pile bents.
 Wascana creek, sections 31/32 township 16 range 18w2. Construction two 20 ft. spans on pile bents.
 Whitemud creek, sections 20/29 township 50 range 25w4. Graded.
 Little Whitemud creek, sections 30/31 township 49 range 25w4. Construction one 19 ft. span on pile bents, one 14 ft. approach at each end.
 Little Whitesand river, sections 31/32 township 25 range 3w2. Construction two 20 ft. spans on pile bents.
 Wetaskiwin creek, section 16 township 46 range 24w4. Construction one 20 ft. span on pile bents.
 Wetaskiwin creek, sections 4/9 township 46 range 24w4. Construction on 18 ft. span on pile bents.
 Whitesand river, sections 23/24 township 29 range 4w2. Reconstruction.
 Whitesand river (branch), sections 21/22 township 29 range 8w2. Construction two 20 ft. spans on pile bents.
 Whitesand river (little), sections 11/12 township 27 range 4w2. Repairs.
 Whitesand river (little), sections 1/6 township 26 range 3w2. Reconstruction 38 ft. Queen truss on piles.
 Whitesand river (little), sections 29/32 township 25 range 3w2. Construction two 20 ft. spans on pile bents.
 Yarrow creek, section 8 township 4 range 29w4. Construction small bridge.
 York lake, sections 20/21 township 25 range 4w2. Construction three 20 ft. spans.

List of Steel Bridges Constructed During the Year 1904.

Blindman river, sections 19/30 township 42 range 2w5
 Battle river, sections 36/1 townships 44/45 range 23w4.
 Crow's Nest river, S.W. $\frac{1}{4}$ section 36 township 7 range 4w5.
 Crow's Nest river, S.W. $\frac{1}{4}$ section 36 township 7 range 4w5.
 Crow's Nest river, S.W. $\frac{1}{4}$ section 36 township 7 range 4w5.
 Dry Wood river, sections 17/18 township 4 range 28w4.
 Elbow river, sections 4/5 township 24 range 2w5.
 Little Bow river, section 5 township 15 range 21w4.
 Moose Mountain creek, sections 33/34 townships 3/4 range 2w2.
 Qu'Appelle river, N.W. $\frac{1}{4}$ section 9 township 18 range 32w1.
 Qu'Appelle river, sections 22/27 township 19 range 12w2.
 Qu'Appelle river, section 20 township 18 range 4w2.
 Souris river, sections 22/23 township 3 range 2w2.
 Souris river, sections 33/34 township 1 range 6w2.

In addition to the above list of bridges, the construction of bridges over Belly river and Old Man river which were delegated to the Government of the North-West Territories have been completed, and description of these bridges will appear elsewhere in this report. The following bridges are worthy of special mention.

Bridge over Blindman river, Sections 19/30-42-25.

This is a new structure consisting of a 60 foot steel span, and 60 foot timber approach, and serves as an outlet to Morningside and Lacombe for the settlers in the Medicine Lodge settlement west of Gull lake. This together with the bridge constructed last season over the outlet of Gull lake seems to satisfactorily meet the requirements.

Bridge over Battle river Sections 31/1 Townships 44/55-23-4.

This structure consists of an 80 ft. steel span and 40 ft. of pile approach which makes a good substantial crossing, and enables the settlers east of the river to reach their market town, Wetaskiwin.

Three Bridges over Crow's Nest river between Frank and Blairmore.

The residents of Frank and Blairmore have for some years been making requests for the bridging of the Crow's Nest river at this point. Careful inspection was made, and the whole situation fully reported upon. To meet the requirements it was found that three bridges would be required; two on the N.W. $\frac{1}{4}$ of section 36, and one on the S.W. $\frac{1}{4}$ of 36, all in township 7-4-5, each structure to consist of an 80 ft. span with necessary pile approach.

Bridge over Drywood river, Sections 17/18-4-28-4.

The construction of this bridge has been held in abeyance. About two years ago it was decided to construct a 50 ft. wooden truss with sufficient pile approach, but the floods of 1902 so changed the condition that the construction was postponed until this season, when a 100 ft. steel span with necessary approaches was erected. This makes a very substantial structure, and with the other bridge constructed on this stream in range 29 and bridge over Yarrow creek serve as important outlets to the Crow's Nest Railway for the settlers living in the foot-hill country south of these streams over what is known as the trail from Pincher to the oil fields.

Bridge over Elbow river at Sprucevale.

For some years past the old bridge at this point has not been giving satisfaction, and each season we have had more or less trouble and expense in repairing it. Owing to the very unsatisfactory condition of the river channel at this point a very careful examination was made with a view to constructing a bridge that would meet the requirements. In order to do this it was found necessary to construct two 80 ft. steel spans with 60 ft. of approach over the main new channel, and a 60 ft. timber truss with 100 ft. of approach over an old overflow channel, and a 40 ft. pile bridge on the overflow channel between the channels mentioned above. The construction was completed early in 1904. This makes a very substantial structure and ought to meet the flood conditions at that point, which are by no means an easy matter to overcome.

Bridge over Little Bow river, Section 5-15-21-4.

This bridge consists of an 80 ft. steel span with a 20 ft. approach to one end and affords a good crossing for the settlers residing between the Bow and Little Bow rivers. After crossing this bridge settlers have a clear way to the Calgary and Edmonton Railway, and by means of the new bridges constructed over the Old Man and Belly rivers settlers are enabled to reach Macleod or Lethbridge if necessary.

Bridge over Qu'Appelle river at Katepwe, Sections 22/27-19-12-2.

The old Katepwe bridge located at the mouth of the Katepwe lakes, has not, owing to its unsatisfactory location, been giving satisfaction for some few years, and last spring it was almost completely destroyed by floods. After a careful examination by our inspector, it was decided to change the location to road allowance something over a mile down the river, at a point known as Peltier's Crossing. An entire new bridge consisting of an 80 ft. steel span and necessary approaches was constructed, which seems to satisfactorily meet the requirements.

Bridge over Qu'Appelle river at Tantallon, Section 9-18-32-1.

Owing to the rapid growth of this town and the great number of settlers in the vicinity adjacent to the town, the department has on several occasions been requested to construct a bridge over the river at this point. A bridge consisting of an 80 ft. steel span and the necessary approaches was constructed; this makes a total of 19 steel bridges on this stream. In former years bridges of almost any design were constructed on this stream, but the floods of 1902 and last spring have illustrated very clearly that something of a more permanent nature must be provided.

Bridge over Souris river near Coalfields, Sections 33/34-1-6-2.

The old bridge at this point has been in bad shape for some years and although repaired last year, the floods of the past spring destroyed it completely. This year a structure consisting of an 80 ft. steel span and necessary approaches was constructed and makes a very serviceable crossing.

Bridge over Souris river near Oxbow, Sections 22/23-3-2-2.

Owing to the unusual floods which prevailed in this part of the country last spring, the old timber truss bridge was completely washed away and it was found necessary to construct an entire new bridge. The bridge which was open for traffic early in the fall, consists of a 125 ft. steel span with 100 ft. of approach on one end and 20 ft. on the other, which makes a good substantial crossing and meets the requirements of the settlers south of the river.

Bridge over Qu'Appelle river at Fort Qu'Appelle.

This bridge which has heretofore been known as the Hudson Bay bridge was constructed several years ago by that company. For the last

few years the department has been called upon to maintain it and the expense in connection with this work each season was considerable and at the same time the bridge was not giving entire satisfaction. This year, the old structure was taken down and a substantial bridge was constructed, consisting of an 80 ft. steel span with necessary approaches. As this bridge serves the general public, the east bridge was dispensed with, not being in a safe condition for traffic. The bridge over same stream at Lebet some miles east of the fort was also repaired.

CONSTRUCTION AND MAINTENANCE OF ROADS.

On account of the increase and extension of settlement and consequent fencing up of the old unsurveyed trails, thus forcing the use of road allowances, at least until really necessary deviation surveys are made, a large amount of road improvement is necessitated each season and the amount of road making and improvements from this cause alone is a large item each year. In addition to this the nature of the soil (generally clay loam) in the most fertile sections of the country over which the heaviest haulage of grain has usually to pass makes the maintenance of such roads in wet seasons an exceedingly difficult undertaking and in many places entirely beyond the means of the Department or local organisations. More attention to drainage of road bed to prevent damage and destruction by water would, in many cases, help the unfavourable conditions that have to be contended with, but the fact must be borne in mind that clay and earth roads always go to pieces under heavy traffic during wet weather and the scarcity of rock and gravel to use as a top dressing in many localities will be a serious drawback to even passable roads for many years to come. During 1904, \$95,064.00 was expended on road improvements directly by the Department, in addition to that done by the Local Improvement Districts, a good many of the most thickly settled districts have organised and placed themselves in a position to spend the Local Improvement Taxes upon the roads under the direction of the council. The recent wet years have been an object lesson and demonstrated pretty clearly that in many localities dry seasons are when improvements should be done, it being too expensive to grade up roads through sloughs and on wet ground during the wet seasons, while if the road had been raised and ditched during the dry seasons, it would have been possible to use it.

The importance of using brush and small timber to corduroy roads in wet places has been in many parts of the country entirely lost sight of, and many roads constructed without corduroy bottom simply lost, while the material available for such work is generally plentiful in the localities were required.

SCHEDULE of Road Improvements undertaken during the year 1904.

Between sections 33/34, 15/16, 3/4-12-30w1.
Moosomin to Fleming.
Moose Mountain trail, south from Moosomin.
Moosomin west.
Fleming north, between sections 3/4, 9/10, 15/16-13-30w1.
Between sections 7/18-14-30w1.
Between sections 12/13-14-30w1.
Between sections 2/3-16-30w1.
Assiniboine hill, section 36-22-30w1.

Moosomin south, between sections 28/29, 16/17, 8/9-13-31w1.
 Langenberg to Landshutt, between sections 34/35-21-31w1.
 Between sections 14/15-23-31w1.
 Ditch west of 19-23-31w1, to improve road between sections 24/25-23-32w1.
 Red Jacket to Hillburn.
 Red Jacket south, between sections 8/9-14-32w1.
 Rocanville west, between sections 13/24-16-32w1.
 Tantallon hill and south to Qu'Appelle river.
 Riddall's ravine, section 18-2-32w1.
 Between sections 27/34-21-32w1.
 Churchbridge north and south.
 Churchbridge east, between sections 16/21-22-32w1.
 Approaches to bridge on section 24/29-32w1.
 Kamsack creek hill, between sections 14/15-29-32w1.
 Between sections 19/20-1-33w1.
 Carnduff to Redvers, east of section 36-3-33w1.
 Wapella to St. Andrea.
 Hazelcliffe hill, between sections 27/34-18-33w1.
 Blake road, across sections 11 and 13-24-33w1.
 Between sections 32/33, 33/34-7-1w2.
 Approaches to bridge, between sections 34/35-13-1w2.
 Between sections 14/15, 22/23-13-1w2.
 Approaches to bridge, west of section 30-13-1w2.
 Brookside trail township 14-1w2.
 North of township 14-1w2.
 Between sections 9/16, 8/9, 8/17-16-1w2.
 Between sections 16/17, 20/21-17-1w2.
 Forest Farm to Whitewood, north of sections 7, 11 and 12-17-1w2.
 Between sections 15/16-19-1w2.
 Kaposvar to Esterhazy, between sections 27/28-19-1w2.
 Between sections 33/34, 21/28-19-1w2.
 Between sections 14/15-13-1w2.
 Ross' crossing of the Cut Arm, between sections 3/10-22-1w2.
 Clumber crossing of the Cut Arm between sections 10/15-22-1w2.
 Between sections 20/29-22-1w2.
 West boundary of township 23-1w2.
 Metcalfe crossing of the Cut Arm s.w. of 6-23-1w2.
 Between sections 6/7-24-1w2.
 Between sections 1/2-25-1w2.
 Between sections 8/9, 16/17-27-1w2.
 Between sections 4/5-9-2w2.
 Between sections 19/20-14-2w2.
 Whitewood to Sunnymeade, between sections 29/30-15-2w2.
 Between sections 19/24-15-2w2.
 Between sections 17/18-16-2w2.
 East of section 25-16-3w2.
 North of section 32-16-2w2.
 Between sections 5/6-16-2w2.
 Between sections 27/28-17-2w2.
 N.E. of section 36-17-2w2.
 Between sections 4/5-17-2w2.
 Approaches to bridge, between sections 8/9-18-2w2.
 North of section 33-18-2w2.
 East of sections 13, 24 and 25-19-3w2.
 Between sections 18/19, 7/18-18-2w2.
 Stockholm to Esterhazy, north of section 35-19-2w2.
 East of section 36-22-3w2.
 Between sections 27/34, 27/28-22-2w2.
 Saltcoats to Crofter Colony east of section 36-24-2w2.
 Between sections 10/11-24-2w2.
 Blake road.
 Between sections 5/6-29-2w2.
 Between sections 23/26, 25/26-2-3w2.
 Between sections 27/28-12-3w2.
 Whitewood to Fletewode, between sections 15/16-14-3w2.
 Whitewood to Moose Mountain.
 Between sections 13/24-16-3w2.
 East of section 25-16-3w2.
 Between sections 26/27-16-3w2.
 Between sections 19/30-16-3w2.
 Between sections 1/2-19-3w2, north.

East of range 3-18-2.
 Ohlen to Stockholm.
 Between sections 7/8, 8/17-20-3w2.
 Approaches to bridge between sections 16/21-28-3w2.
 Across sections 20 and 29-15-4w2.
 Approaches to bridge between sections 8/9-15-4w2.
 Broadview to Whitewood, between section 24/25, 23/26-16-4w2.
 Dubuc to Cotham, between sections 5/6-19a-4w2.
 North of section 35-19-4w2.
 Between sections 33/34-16-4w2.
 On section 11-23-4w2.
 Yorkton-Broadview road at Cemetery slough, between sections 35/36-25-4w2.
 Yorkton-Otthon road, between sections 22/27-25-4w2.
 Yorkton-Reaman road, between sections 25/26-26-4w2.
 Yorkton-Touchwood road, north of sections 33 and 34-25-6w2.
 Between sections 11/12-27-4w2.
 Yorkton-Devil's lake trail, between sections 30/31-27-4w2.
 Between sections 14/16, 21/22-27-4w2.
 Between sections 9/10-3-5w2.
 Between sections 21/22-16-5w2.
 East of section 1-16-7w2.
 Through section 11-26-6w2.
 East of sections 4, 9 and 16-14-7w2.
 Between sections 19/20, 29/30-15-7w2.
 North of section 31-14-7w2.
 Between sections 5/6-15-7w2.
 Between sections 17/18-16-7w2.
 Grenfell-Hyde road.
 Hyde Hill.
 Road over Pearl creek, north of township 19-7w2.
 Approaches to bridge, between sections 21/22-19-7w2.
 On section 14-29-7w2.
 Between sections 33/34-14-8w2.
 East of sections 13 and 24-16-8w2.
 Between sections 7/8, 17-18-16-8w2.
 Grenfell-Tiree road.
 On section 19-18-8w2.
 Ellisboro to the Reserve.
 Between sections 10/11-19a-8w2.
 On section 2-19a-8w2.
 Neudorf east, west and north.
 Between sections 3/4-15-9w2.
 North of section 34-16-9w2.
 Wolseley to Summerberry.
 Approaches to bridge, between sections 25/26-17-9w2.
 Wolseley to Ellisboro.
 Approaches to bridge, between sections 18/19-18-9w2.
 Approaches to bridge, between sections 15/16-18-9w2.
 Between sections 13/14-18-9w2.
 Hill Farm to Lemberg, east of sections 1, 12, 13, 24-19-10w2.
 Lemberg west, between sections 18/19, 17/20-20-9w2.
 Lemberg north.
 Wolseley to Lemberg between sections 9/10-20-9w2.
 Between sections 4/5-22-9w2.
 Between sections 24/25-4-10-2.
 Between sections 21/28-4-9w2.
 Approaches to bridge on section 15-14-10w2.
 Between sections 14/15-14-10w2.
 Moffat west, between sections 14/15-16-10w2.
 East Moffat road.
 Wolseley west.
 Wolseley to Montmartre.
 Between sections 14/15-18-10w2.
 North of sections 34, 35 and 36-20-10w2.
 Between sections 35/36-3-11w2.
 Between sections 1/2-4-11w2.
 Wolseley to Fairview.
 North of sections 33 and 34-14-11w2.
 North of 7, 8 and 9-17-11w2.
 Approaches to bridge on section 6-19a-11w2.
 Kenlis to Sintaluta,

North of 21, 22, 23 and 24-30-11w2
 East of section 25-17-13w2
 Between sections 20/29-19-12w2
 Between sections 34/35-17-13w2, south.
 Between sections 2/3, 10/11-19-13w2.
 Fort Qu'Appelle to Wideawake
 Fort Qu'Appelle to Loon creek.
 Fort Qu'Appelle to the Sioux Reserve.
 Approaches to bridge between sections 32/33-7-14w2
 Approaches to bridge between sections 20/21-8-14w2
 Ditch through section 28 to improve road between 28/29-8-14w2
 North of section 31-8-14w2.
 Between sections 4/5-9-14w2
 Between sections 22/23-17-14w2
 Through sections 14 and 15-21-14w2
 Through sections 19 and 30-22-14w2
 Grand rapids to Cross Lake.
 Cross lake to Omhapewin portage.
 North of section 31-9-15w2.
 Approaches to bridge between sections 28/29-9-15w2
 Between sections 24/25-13-15w2, west 5 miles, north 4 miles.
 Between sections 24/25-18-15w2.
 MacLean north.
 Between sections 35/36-19-15w2.
 North of section 36-19-15w2.
 Fort Qu'Appelle to Touchwood hills.
 Touchwood hills to Fishing lake.
 Between sections 12/13-29-15w2.
 North of township 10-16w2.
 Between sections 29/30-10-16w2.
 Between sections 26/27-16-16w2.
 Between sections 7/8-16-16w2.
 Between sections 11/12, 13/14-18-16w2.
 East of sections 13 and 24-19-16w2.
 Kutawa to Wishart,
 Lang east and north.
 Approaches to bridge between sections 26/27-11-17w2.
 Between sections 23/24-13-17w2, north 9 miles.
 Between sections 23/26, 26/27-17-17w2.
 Balgonie to St Joseph's.
 Between sections 33/34-18-17w2, south 3 miles.
 Between sections 2/3-19-17w2.
 Approaches to bridge north of section 32-21-17w2.
 Approaches to bridge on section 16-21-17w2.
 Approaches to bridge between sections 35/36-15-18w2.
 Between sections 23/26-15-18w2.
 North of township 21-18w2.
 Between sections 20/29-44-18w2.
 Between sections 3/4-12-19w2.
 Between sections 33/34-15-19w2.
 Regina to Arat.
 Between sections 25/26-17-19w2, east one mile.
 Approaches to bridge between sections 36/26-17-19w2.
 Approaches to bridge between sections 22/27-17-19w2.
 Road at reservoir section 2-17-19w2.
 North of section 32-17-19w2.
 Craven to Pie-a-pot's Reserve.
 East of sections 24, 25 and 36-43-20w2.
 Between sections 12/13-44-19w2, west 3 miles.
 Between sections 23/26-17-20w2.
 Approaches to bridge between sections 31/32-17-20w2.
 Approaches to bridge between sections 22/27-17-20w2.
 Roads in L.L.D. 109.
 Approaches to bridge in section 33-19-21w2.
 Approaches to bridge between sections 23/24-20-21w2.
 North of section 32-20-21w2.
 Craven to Strassburg.
 Between sections 23/24-21-21w2, south 2 miles, east 1 mile.
 Between sections 32/33-21-21w2, south to Wright's ravine.
 Approaches to bridge between sections 27/34-26-21w2.
 Between sections 15/16-27-21w2, north 4 miles,

Between sections 3/4, 9/10-28-21w2.
 Between sections 4/5-17-22w2.
 Roads in L.I.D. 95.
 Between sections 12/13, 11/14-44-22w2.
 Between sections 3/4, 9/10-15-23w2.
 Between sections 29/30-15-23w2.
 Between sections 19/30-16-23w2.
 East of sections 24 and 25-16-24w2.
 Between sections 24/25-16-24w2.
 Between sections 24/25-17-23w2, west.
 Dewdney street.
 Marieton to Silton.
 Pengarth to Marieton.
 Adam's crossing to Birch hills.
 Markley's crossing.
 Prince Albert to Steep creek.
 Prince Albert to Markley's crossing.
 Approaches to bridge between sections 14/15-15-25w2.
 Between sections 8/9-22-26w2.
 Rosthern to St. Peter's colony.
 On section 4-47-26w2.
 Red Deer hill to Prince Albert.
 Between sections 19/30-16-27w2, east 2 miles then north 1 mile.
 Between sections 22/27-11-27w2.
 Roads in L.I.D. 203.
 Between sections 7/18-19-27w2, east 6 miles.
 East of 30, 31, 32, 33 and south of 28, 29 and 30-24-27w2.
 Roads in Willow Bunch District.
 Approaches to bridge on section 13-24-28w2.
 Between sections 23/24-24-28w2.
 Approaches to bridge north of 34-25-28w2.
 Approaches to bridge between sections 22/27-25-28w2.
 Road to bridge north of section 34-26-28w2.
 On section 25-40-28w2.
 On section 26-40-28w2.
 Road north of Caron between sections 25/36, 26/35-17-29w2.
 Roads in L.I.D. 215.
 Approaches to bridge between sections 22/27-25-29w2.
 Between sections 24/25-5-1w3.
 Between sections 4/5-41-1w3, north 5 miles.
 Approaches to Batoche ferry.
 Prince Albert-Sheilbrook trail.
 East of Range 3-39w3.
 Batoche to Fish creek.
 Blackstrap coulee north of section 31-32-3w3.
 French to Nutana.
 Hague west.
 Rosthern west.
 Rosthern east.
 Snake plain to Duck lake between sections 10/11, 14/15-46-3w3.
 From section 6-48-3w3 south to Saskatchewan river.
 Between sections 5/6-37-4w3 north 2 miles then east 2 miles.
 Duck lake to Carlton.
 Roads in L.I.D. 393.
 East of range 6-36w3.
 Saskatoon-Battleford trail.
 Between sections 20/29, 21/28-27-5w3.
 Between sections 4/5-27-5w3.
 Roads in L.I.D. 280.
 Between sections 21/22-38-6w3, south 5 miles.
 Between sections 12/13-43-6w3, west 3 miles.
 Between sections 19/30-39-8w3.
 Approaches to bridge on section 5-39-10w3.
 Swift Current to Saskatchewan river, west of sections 18/19-19-11w3.
 On section 7-43-12w3.
 On section 31-15-13w3.
 Road south of Swift Current leading to C.P.R. crossing.
 Approaches to bridge east of Swift Current.
 On section 21-16-14w3.
 Road from Swift Current to Battleford in township 16-14w3.
 On section 8-17-14w3.

In sections 5, 8 and 17-17-14w3.
 Approaches to ferry at Saskatchewan Landing.
 Bresaylor to Battleford.
 On section 19-10-22w3.
 Battleford-Lloydminster trail.
 On section 30-10-23w3.
 Maple creek to Skull creek, between sections 23/26-10-24w3.
 On section 25-10-24w3.
 Between sections 19/30 and on 29-10-24w3.
 Between sections 9/16-11-25w3,
 S.E. of section 6-11-25w3.
 North of section 33-10-25w3.
 Maple creek to The Gap.
 Between sections 10/11-13-36w3.
 On section 23-14-26w3.
 Battleford to Jack Fish lake.
 Maple creek to Battle creek on section 14-9-28w3.
 Lloydminster to Fort Pitt.
 On section 2-8-29w3.
 Josephsburg-Elkwater trail in township 8-2w4.
 Josephsburg-Sawmill trail in township 8-3w4.
 Josephsburg to Irvine.
 The Dunmore hill on the Medicine Hat-Josephsburg trail.
 Cypress hills trail.
 Between sections 15/16-11-3w4.
 Approaches to bridge on section 1-8-4w4.
 Approaches to bridge over Medicine Hat coulee on section 12-8-4w4.
 Approaches to bridge between sections 32/33-11-5w4.
 Porter's hill between sections 29/32-12-5w4.
 Between sections 29/30 and in 30-12-5w4.
 Culley coal mine trail.
 Vegreville to Beaver lake, north of 32-51-15w4, and between sections 10/15-52-17w4.
 Between sections 30/31-56-15w4, east 6 miles.
 Edmonton to Vegreville, between sections 10/11, 21/22-52-17w4.
 Pakan ferry landing and roads thereto.
 Victoria to Boyne lake.
 Approaches to bridge between sections 19/30-49-18w4.
 Approaches to bridge east of section 24-51-18w4.
 On sections 8 and 18-54-18w4.
 Between sections 19/30-6-19w4.
 Lethbridge-Stirling trail.
 Between sections 15/16-49-19w4.
 Between sections 11/12, 13/14-54-19w4.
 Roads in L.I.D. 43.
 Stoney creek hill on section 28-46-20w4.
 North of section 31-55-20w4.
 Between sections 11/12-8-21w4.
 Rosenrol to Stoney creek.
 Between sections 17/18 53-21w4, north 4 miles.
 North of township 54-21-22w4.
 Roads in L.I.D. 17.
 On section 36-5-22w4.
 Between sections 23/24-5-22w4.
 On section 16-5-22w4.
 Between sections 24/25-5-22w4.
 Hill west of Belly river bridge.
 Hill east of Belly river bridge.
 Between sections 7/18 22-22w4.
 Roads in L.I.D. 430.
 Rosenroll west.
 Wetaskiwin to Gould's crossing, north of township 45-22w4.
 Beaver lake to Edmonton.
 Between sections 12/13, 11/14, 10/15-53-22w4.
 Between sections 32/33-53-22w4.
 Between sections 28/29, 20/21-54-22w4.
 Easterly boundary of township 54-22w4.
 Roads in L.I.D. 31.
 Approaches to bridge on section 29-40-23w4.
 Between sections 24/25-40-23w4, west 4 miles.
 Between sections 15/16-44-23w4, north 4 miles,

Westaskiwin to Red Deer lake.
 Approaches to bridge, north of section 36-44-23w4.
 Slough on section 34-45-23w4.
 On section 27-26-23w4.
 On section 36-51-23w4.
 Between sections 21/28-52-23w4.
 Roads in L.I.D. 32.
 Strathcona to Clover Bar.
 Between sections 21/28-1-24-w4.
 On section 22-1-24w4.
 Between sections 17/18-1-24w4.
 North of township 1-24w4.
 Between sections 17/18, 8/17-3-24w4.
 Between sections 24/25-3-24w4.
 Lacombe east.
 Ponoka to Asker north of township 42-24w4.
 Wetaskiwin to Millett on C. & E. trail.
 North of sections 32/33-48-24w4.
 Roads in L.I.D. 159.
 Between sections 1/2-51-24w4.
 Between sections 21/22-51-24w4, north 3 miles.
 Between sections 11/12-51-24w4.
 Between sections 21/28-52-24w4.
 Edmonton to Fort Saskatchewan.
 Roads in L.I.D. 68.
 Levelling earth along Favel's lake drain.
 Between River Lots and township 52 west of Fulton's creek.
 Edmonton-Athabasca Landing trail.
 The road between Stoney plain and St. Albert trails.
 Between sections 24/25-1-25w4.
 Between sections 34/25-1-25w4.
 North of section 24-2-25w4.
 North of section 31-1-25w4.
 Between sections 10/15-2-25w4.
 Between sections 22/23-2-25w4.
 Between sections 21/28-2-25w4.
 Between sections 14/15-2-25w4.
 Between sections 11/12-2-25w4.
 Between sections 23/24 and on section 23-3-25w4.
 From St. Mary's river bridge into Cardston.
 Between sections 4/5-3-25w4.
 Between sections 25/26-3-25w4.
 East of section 25-8-25w4.
 Lacombe to Lamberton, between sections 21/28, 20/21-4-25w4.
 Morningside east, north of section 34-41-25w4.
 Between sections 10/15, 11/14, 12/13-51-25w4.
 Between sections 22/23-51-25w4, north 3 miles.
 Fourteenth base line east from Edmonton.
 Edmonton-St. Albert trail.
 Roads in L.I.D. 52.
 Morinville to St. Albert.
 East of section 36-2-27w4.
 Between sections 7/18-2-26w4.
 Cardston to Leavitt.
 Between sections 4/5-3-26w4.
 North of section 33-2-26w4.
 Between sections 13/14, 25/26-8-26w4.
 Macleod to Porcupine hills.
 North of township 19-26w4.
 Ponoka to Pigeon lake in township 43-4w5.
 Ponoka to Fairybank in township 43-26w4.
 Easterly boundary of township 49-26w4.
 Between sections 25/36-49-25w4, west 12 miles.
 Easterly boundary of township 5-26w4.
 Between sections 24/25-55-26w4, east two miles.
 East of section 1-56-27w4.
 Approaches to bridge on section 11-2-27w4.
 Between sections 17/20-2-27w4.
 Between sections 16/21-2-27w4.
 Between sections 20/29-2-27w4.
 Between sections 15/22, 16/17-2-27w4,

Between sections 19/20-2-27w4.
 On sections 19 and 28-2-27w4.
 Approaches to bridge, between sections 27/34-2-27w4.
 Between sections 27/28-2-27w4.
 On sections 24 and 13-2-27w4.
 Mountain View trail on sections 19/20 and 35-2-27w4.
 Cardston-Caldwell trail, north of township 2-27w4.
 Approaches to bridge, between sections 32/34-2-27w4.
 Between sections 35/36-2-27w4.
 East of section 13-17-27w4.
 On section 8-19-27w4.
 North of township 19-27w4.
 Between sections 20/29-20-27w4.
 Between sections 22/23-23-27w4.
 Innisfail east.
 Penhold to Pine lake.
 Red Deer east in township 38-27w4.
 Roads in L.L.D. 467.
 Blackfalds west.
 Morningside west.
 Between sections 13/14-2-28w4.
 North of township 18-28w4.
 Between sections 16/17-19-28-4, north five miles.
 North of township 38-28w4.
 Lacombe-Gull lake road.
 Between sections 26/27-9-29w4.
 Between sections 21/28-18-29w4.
 North of section 34-17-29w4.
 Sawyer's hill, N.E. section 22-20-29w4.
 Between sections 4/5, 8/9-21-29w4.
 Between sections 24/25-23-29w4.
 North of sections 34-23-29w4.
 Calgary-Knee Hill trail.
 Pincher Creek-Oil Fields trail.
 Between sections 32/33-19-1w5.
 Between sections 21/28-19-1w5.
 Between sections 1/12-19-1w5.
 Between sections 22/27-19-1w5.
 Between sections 16/17-19-1w5.
 Okotoks-Lineham trail in township 20 ranges 1 and 2w5.
 On section 36-21-1w5.
 Calgary-Macleod trail south to Okotoks.
 Mission hill near Calgary.
 North Blackfoot trail.
 Boulevard hill.
 Millett to Leduc on Calgary and Edmonton trail.
 Wetaskiwin south on C. and E. trail.
 Approaches to Nose creek bridge on section 3-25-1w5.
 Calgary-Beaver dam trail.
 Bowden east.
 Bowden west.
 Innisfail to Tindastoll.
 Red Deer to Burnt lake.
 Approaches to bridge between sections 34/35-40-1w5.
 High river to Ings.
 Road leading to Weasel Head bridge.
 Calgary-Morley trail, north of Bow river.
 Calgary-Nose creek trail.
 Dog Pond creek to Olds on section 31-32-2w5.
 Olds west and north to Red Lodge.
 Berrydale school house to Red Lodge.
 North of township 49-2w5.
 Lac Ste. Anne to Edmonton.
 Rivierre Qui Barre to Lac la Nonne.
 Calgary-Millarville trail.
 Calgary-Morley trail south of Bow river.
 Between sections 11/14-25-4w5.
 New surveyed trail from Calgary to Cochrane.
 Between sections 20/21, 27/28-25-4w5.
 Jumping Pond creek bridge to top of hill in township 25-4w5.
 Cochrane south to the Elbow.

On section 27-26-4w5.
 On section 3-28-4w5.
 Olds west.
 North of section 34-26-5w5.
 Hills at Ghost river bridge, sections 14-26-6w5.

Ferries.

The following ferries were operated and installed during the year:

Bow river at Blackfoot reserve.
 Old Man river at Summerview.
 Red Deer river at Steerford.
 Saskatchewan river (north) at Battleford (steam ferry).
 " at Carlton.
 " at Elbow near Henrietta.
 " at Fort Pitt.
 " at West of Rosthern.
 " at Wingard.
 " at Victoria.
 Saskatchewan river (south) at Adams.
 " at Batoche.
 " at Fish creek.
 " at Hague.
 " at Isbister's.
 " at North of Maple Creek.
 " at Medicine Hat.
 " at Saskatoon.
 " at St. Laurent.
 " at St. Louis.
 " at Saskatchewan Landing.
 " at Osler.
 " at Hanley.

The severe floods of last spring causing such high water and ice jams resulted in considerable damage to some of the ferries. New ferries were built at Clark's Crossing, Wingard and Osler. Owing to the large influx of population to the district west of Hanley, a new ferry was installed on the South Saskatchewan river about twenty-six miles west of that point. The new bridge over Old Man river at Macleod having been completed early in the season the ferry there was moved up the river to a point near Pincher creek and was a source of relief to the settlers on the north side of the river. It will be noted from the list that twenty-three ferries were operated during the season.

FIREGUARDS.

During 1903, 1884·54 miles of fireguard were ploughed along the Canadian Pacific Railway and branches, the Alberta Railway and Coal Company and the St Mary's River Railway. This in addition to 1119 miles of other fireguard constructed or maintained made a total of 3003·54 miles. Contracts with the railway companies were cancelled the latter part of 1903, and railway fireguarding consequently discontinued. In addition to reploughing the existing country fireguards, several miles of new guard were ploughed, the total mileage for the season of 1904 amounting to 1460·01. The ploughing of these guards was generally up to the standard specifications, viz: 16 feet in width, though in some localities two 8 foot guards were provided and grass

burned between them, this, where the nature of the country will permit, being undoubtedly a more effective guard than the one 16 foot guard, though the difficulty in getting grass burned between guards has always been a drawback. The following schedule will show the location and mileage of guards constructed and maintained during 1904:

FIREGUARDS, 1904.

	Miles.
South of Swift Current in tps. 14/15-13/14w3	15
Gull Lake fireguard.....	16.50
From Rush Lake tp. 17-10w3, to Saskatchewan river tp. 19-12w3.....	19
From Creek sec. 1-13-19w3, to Swift Current Creek sec. 4-12-18w3	7
From Swift Current creek sec. 30-10-20w3, to sec. 6-12-22w3	18
From Swift Current creek tp. 18-12w3, to tp. 18-11w3.....	10
From C.P.R. south to line between res. 15/16w3, to Swift Current creek....	35
Crane lake fireguard.....	23
Swift Current creek to Peltiers' lake	41
From Crane lake in sec. 22-13-24w3, to lake in sec. 22-13-26w3	12
From Swift Current creek 21-19-13w3, to re. 15w3	33
From Bittern lake tp. 13-28w3, south to Maple Creek coulee trail, secs. 10/11-9-28w3.	18
From C.P.R. between tps. 13/14-14w3, to fireguard between Swift Current and Peltier's lake.....	28.75
From tps. 18/19-11w3, north easterly to sec. 2-21-7w3	34
From Purple Springs, on line between res. 14/15, to west boundary of tp. 5	22
On north boundary of tp. 14 from Bow river to Little Bow	33.9
From Old Man river to Belly river tp. 9-22w4	60
From C.N.P.R. to Belly river tp. 9-18w4.....	7.50
From C.N.P.R. to Belly river, res. 20/21w4.....	8
From C.N.P.R. to Belly river, res. 19/20w4.....	3.50
From C.N.P.R. to A.R.R. & C. Co. on line between res. 18/19w4.....	21
From C.N.P.R. to Belly river along west boundary of range 14.....	7
From Old Man river to Little Bow, between res. 24/25w4.....	69.30
On north boundary township 3, following line between res. 14/15w4 to Milk river.....	24
From C.N.P.R. to Belly river on the east boundary of Piegan Indian Reserve, tp. 8-26w4 to tp. 6-26w4, south to Belly river.....	25
On north boundary of tp. 12, across res. 25/26/27w4.....	14
On north boundary of tp. 9, from re. 28w3 to re. 6w4.....	48
From Irvin tp. 11-2w4 south to tp. 10-2w4.....	12
From Howell station N.E. to Saskatchewan river at north boundary tp. 14-5w4	18
From Howell station to South Saskatchewan river between res. 7/8w4	11
From Saskatchewan river tp. 12-9w4, to coulee 10-8w4.....	24
On west boundary of re. 2w5, from Sheep creek to High river	14.50
From C. & E. to Little Bow river on north boundary of tp. 14, across res. 26/27/28w4	3.30
On north boundary tp. 16, across res. 28/27/26/25w4.....	22
On line between res. 24/25 from north tp. line of 14, to fireguard on north line of tp. 20-w4	42
On north-east and south of township 20-27w4.....	18
From Gleichen north on the line between ranges 22/23w4 to north boundary of township 24	17
On north boundary of township 26, across ranges 25/26/27/28w4.	24
From C.P.R. to Crow Foot guard township 24-27/28w4.....	9
On line between ranges 3/4 in township 13w2.....	12.50
From section 30-20-26w2 to section 8-21-27w2	8
On four sides township 29-15w2.....	24
From Shepard north on line between ranges 28/29 to north of township 26 and west of C. & E. railway	30
From north township 26 on line between ranges 28/29w4 to Rose Bud river	60
From C. & E. to east boundary of range 20w4 near Dead Horse lake following north boundary of township 24.....	60
From South Saskatchewan river to Many Island lake townships 13/14-2/3w4	21
From east of range 25w4 to one mile west of C. & E. following boundary of township 10-25/26/27w4	13
From section 9-26-2w5 to Beaver dam creek	15.50
On north boundary of township 23-28w4.....	60

	Miles.
From north boundary of township 24, following ranges 25/26 to Knee Hill creek in township 30.....	31
On township 22-26/27/28w4.....	19
From C.P.R. south to Bow river following line between ranges 12/13w4..	22.25
From Swift Current creek, N.E. corner section 21-19-13w3, west of fireguard on boundary of township 19-15w3.....	15
From Four Mile coulee to Battle creek and from Battle creek, in section 31-7-29w3, west to 4th meridian, to section 19-4-28w3.....	6
From line between ranges 2/3w3, following line between townships 27/28, west of sections 33/27w4.....	30
From C.P. Ry. sections 16/17-13-21w3, thence north to township line between townships 15/16, thence west to line between ranges 21/22, thence north to sand hills, say 36-16-22w3.....	24
From the South Saskatchewan river on line between townships 17/18 to the line between ranges 1/2w4, thence south to meet guard on south boundary township 13.....	36
From South Saskatchewan river to lake Enokimi following line between ranges 10/11w4 south to lake Enokimi.....	28
On line between ranges 2/3w4, from the C.P.R. north to south boundary of township 14.....	12
From Belly river to Bow river.....	17
From Big Stick lake township 8-15-28w3 to Many Island lake section 12-14-30-3.....	34
From section 35-6-29w3 to N.E. corner of township 6-29w3, thence south between ranges 28/29 to south-west corner of section 30-4-28w3.....	17
Stair fireguard section 12-13-7w4 to section 13-36-6w4.....	11

LOCAL IMPROVEMENT BRANCH.

Staff.....	1 clerk in charge. 1 cashier. 1 assistant cashier. 1 accountant 9 permanent clerks. 6 temporary clerks. 3 stenographers.
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The work of this branch in 1904 grew in a manner corresponding to the influx of population. At times when the work had become almost congested it was found necessary to engage temporary clerks in order that the various parts of the work should be completed before the end of the year.

SMALL DISTRICTS.

Many areas which have heretofore been in large districts were organised under the provisions of The Local Improvement Ordinance passed in November, 1903.

Following is a complete list of small districts which were formed in 1904 and the opening months of the present year.

1-A-1—Townships 1 and 2 in ranges 30 and 31 and east halves of townships 1 and 2 in range 32 all west of the first meridian. Secretary-treasurer: Wm. McBrien, Elmore, Assa.

2-A-1—Townships 3 and 4 in ranges 30 and 31 west of the first meridian. Secretary-treasurer: Alex. McClung, Gainsboro.

3-A-1—Townships 5 and 6 in ranges 30 and 31 west of the first meridian. Secretary-treasurer: James Akeroyd, Antler.

4-A-1—Townships 7 and 8 in ranges 30 and 31 west of the first meridian. Secretary-treasurer: Edgar Haight, Antler.

5-A-1—Townships 9 and 10 in ranges 30 and 31 west of the second meridian. Secretary-treasurer: Kate Stableford, Lippentott.

6-A-1—Townships 11 and 12 in ranges 30 and 31 west of the first meridian. Secretary-treasurer: M. McPhee, Fleming.

7-A-1—Townships 13 and 14 in ranges 30 and 31 west of the first meridian.
Secretary-treasurer: R. J. Phin, Moosomin, Assa.

8-A-1—Townships 15 and 16 in ranges 30 and 31 west of the first meridian.
Secretary-treasurer: Richard Cail, Callmount, Assa.

9-A-1—Townships 17 and 18 in ranges 30 and 31 west of the first meridian.
Secretary-treasurer: John A. Brown, Spy Hill, Assa.

10-A-1—Townships 19 and 20 in ranges 30 and 31 west of the first meridian.
Secretary-treasurer: C. H. Blucke, Bavelow, Assa.

11-A-1—Townships 21 and 22 in ranges 30 and 31 west of the first meridian.
Secretary-treasurer: Henry J. Veal, Langenhurg.

12-A-1—Townships 23 and 24 in ranges 30, 31 and 32 west of the first meridian.
Secretary-treasurer: Gisli Egilson, Logberg, Assa.

13-A-1—Townships 25 and 26 in ranges 30, 31 and 32 west of the first meridian.
Secretary-treasurer: J. L. Anderson, Castle Avery.

14-A-1—Portions east of Assiniboine river in township 27 ranges 30 and 31, township 28 range 30 and portion east of river in township 28 range 31, township 29 range 30 and portions east of river and Indian reserve in township 29 range 31 all west of the first meridian. Secretary-treasurer:

17-A-1—Townships 33 and 34 in ranges 30, 31 and 32 and portions not included in Indian reserve of township 32 range 32 all west of the first meridian. Secretary-treasurer:

18-A-1—Townships 35 and 36 in ranges 30 and 31 west of the first meridian.
Secretary-treasurer:

1-B-1—West halves of townships 1 and 2 in range 32; township 1 and 2 in range 33 and fractions of townships 1 and 2 range 34 all west of the first meridian.
Secretary-treasurer: P. E. Ross, Carnduff, Assa.

2-B-1—Townships 3 and 4 in ranges 32 and 33 and fractions of townships 3 and 4 in range 34 west of the first meridian. Secretary-treasurer: George Melton, Carnduff, Assa.

3-B-1—Townships 5 and 6 in ranges 32, 33 and 34 west of the first meridian.
Secretary-treasurer: T. G. Ellis, Redvers, Assa.

4-B-1—Townships 7 and 8 in ranges 32, 33 and 34 west of the first meridian.
Secretary-treasurer: T. W. Montgomery, Redvers, Assa.

5-B-1—Townships 9 and 10 in ranges 32, 33 and 34 west of the first meridian.
Secretary-treasurer: Isaiah Bricker, Glen Adelaide.

6-B-1—Townships 11 and 12 in ranges 32 and 33 and fractions of townships 11 and 12 in range 34 west of the first meridian. Secretary-treasurer: A. H. Salmon, Riga, Assa.

7-B-1—Townships 13 and 14 in ranges 32 and 33 and fractions of townships 13 and 14 in range 34 west of the first meridian. Secretary-treasurer: K. Price, Moosomin, Assa.

8-B-1—Townships 15 and 16 in ranges 32 and 33 west of the first meridian.
Secretary-treasurer: Thos. F. Terry, Wapella, Assa.

9-B-1—Townships 17 and 18 in ranges 32 and 33 west of the first meridian.
Secretary-treasurer: Thos. Moore, Dongola, Assa.

10-B-1—Townships 19 and 20 in ranges 32 and 33 west of the first meridian.
Secretary-treasurer: J. H. Riddall, Redpath, Assa.

11-B-1—Townships 21 and 22 in ranges 32 and 33 west of the first meridian.
Secretary-treasurer: John Riglin, Riversdale, Assa.

14-B-1—Portions west of Assiniboine river of townships 27 ranges 30 and 31 and townships 28 and 29 in ranges 31 and 32 and township 27 in range 32 west of the first meridian, also fraction of townships 27, 28, 29 and 30 in range 33 west of the first meridian. Secretary-treasurer:

1-A-2—Townships 1 and 2 in ranges 1 and 2 west of the second meridian.
Secretary-treasurer: Wm. M. V. Carpendale, Oxhow, Assa.

2-A-2—Townships 3 and 4 in ranges 1 and 2 west of the second meridian.
Secretary-treasurer: W. Staples, Oxhow, Assa.

3-A-2—Townships 5 and 6 in ranges 1 and 2 west of the second meridian.
Secretary-treasurer: C. A. Chase, Oxhow, Assa.

4-A-2—Townships 7 and 8 in ranges 1 and 2 west of the second meridian.
Secretary-treasurer: C. N. Malthy, Manor, Assa.

5-A-2—Townships 9 and 10 in ranges 1 and 2, portions not included in Indian Reserve, west of the second meridian. Secretary-treasurer: S. E. Howarth, Glen Adelaide.

6-A-2—Townships 11 and 12 in ranges 1 and 2 west of the second meridian.
Secretary-treasurer: Geo. Avery, Kissina, Assa.

7-A-2—Townships 13 and 14 in ranges 1 and 2 west of the second meridian.
Secretary-treasurer: Donald McDiarmid, Benbecula.

8-A-2—Townships 15 and 16 in ranges 1 and 2 west of the second meridian.
Secretary-treasurer: W. A. Mann, Sunnymead, Assa.

9-A-2—Township 17 in ranges 1 and 2 and portions south of Qu'Appelle river of township 18 in ranges 1 and 2 west of the second meridian. Secretary-treasurer: S. A. Petchell, Forest Farm, Assa.

10-A-2—Portions north of Qu'Appelle river of township 18 in ranges 1 and 2 and townships 19a, 19 and 20 in ranges 1 and 2 west of the second meridian. Secretary-treasurer: J. Donohue, Esterhazy, Assa.

11-A-2—Townships 21 and 22 in ranges 1 and 2 west of the second meridian. Secretary-treasurer: M. D. Barker, Clumber, Assa.

12-A-2—Townships 23 and 24 in range 33 west of the first meridian and townships 23 and 24 in ranges 1 and 2 west of the second meridian. Secretary-treasurer: Gilbert Hughes, Saltcoats.

13-A-2—Townships 25 and 26 in range 33 west of the first meridian and townships 25 and 26 in ranges 1 and 2 west of the second meridian. Secretary-treasurer: M. Matheson, Stornoway, Assa.

14-A-2—Townships 27 and 28 in ranges 1 and 2 west of the second meridian. Secretary-treasurer: Wm. Lang, Stornoway, Assa.

15-A-2—Township 29 in ranges 1 and 2 township 30 in ranges 1 and 2 and township 31 in range 2 west of the second meridian and portions west of Assiniboine river of townships 30, 31 and 32 in range 32 west of the first meridian and of townships 31 and 32 in range 1 and township 32 in range 2 west of second meridian. Secretary-treasurer:

1-B-2—Townships 1 and 2 in ranges 3 and 4 west of the second meridian. Secretary-treasurer: A. Mackenzie, North Portal.

2-B-2—Townships 3 and 4 in ranges 3 and 4 west of the second meridian. Secretary-treasurer: D. McKnight, Frobisher, Assa.

3-B-2—Townships 5 and 6 in ranges 3 and 4 west of the second meridian. Secretary-treasurer: Samuel Martin, Douglaston.

4-B-2—Townships 7 and 8 in ranges 3 and 4 west of the second meridian. Secretary-treasurer: A. A. Campbell, Carlyle, Assa.

6-B-2—Townships 11 and 12 in ranges 3 and 4 west of the second meridian. Secretary-treasurer: J. P. Connell, Flettwode, Assa.

7-B-2—Townships 13 and 14 in ranges 3 and 4 west of the second meridian. Secretary-treasurer: W. J. White, Fitzmaurice, Assa.

8-B-2—Townships 15 and 16 in ranges 3 and 4 west of the second meridian. Secretary-treasurer: Jos. Cope, Broadview, Assa.

10-B-2—Portions not included in Indian Reserve of townships 18 and 19a in ranges 3 and 4 and townships 19 and 20 in ranges 3 and 4 west of the second meridian. Secretary-treasurer: Wm. Granville, Dubuc, Assa.

11-B-2—Townships 21 and 22 in ranges 3 and 4 west of the second meridian. Secretary-treasurer: Gwilym Lewis, Llewelyn, Assa.

12-B-2—Townships 23 and 24 in ranges 3 and 4 west of the second meridian. Secretary-treasurer: H. H. Watts, Crescent Lake.

13-B-2—Townships 25 and 26 in ranges 3 and 4 west of the second meridian. Secretary-treasurer: Thos. A. Waterfield, Yorkton.

14-B-2—Townships 27 and 28 in ranges 3 and 4 west of the second meridian. Secretary-treasurer: G. Gabert, Ebenezer, Assa.

15-B-2—Townships 29 and 30 in ranges 3 and 4 west of the second meridian. Secretary-treasurer: M. Gahora, Yorkton, Assa.

16-B-2—Townships 31 and 32 in ranges 3 and 4 west of the second meridian. Secretary-treasurer:

17-B-2—Townships 33 and 34 in ranges 3 and 4 west of the second meridian. Secretary-treasurer: Wm. Jones, Plateau, Assa.

1-C-2—Townships 1 and 2 in ranges 5 and 6 west of the second meridian. Secretary-treasurer: Robert Dunhar, North Portal.

2-C-2—Townships 3 and 4 in ranges 5 and 6 west of the second meridian. Secretary-treasurer: H. W. Breeze, Roseview, Assa.

3-C-2—Townships 5 and 6 in ranges 5 and 6 west of the second meridian. Secretary-treasurer: A. C. Moynes, Roseview, Assa.

4-C-2—Townships 7 and 8 in ranges 5 and 6 west of the second meridian. Secretary-treasurer: Wm. F. Tait, Kisby, Assa.

5-C-2—Townships 9 and 10 in ranges 5 and 6 west of the second meridian. Secretary-treasurer: John A. Hall, Percy, Assa.

6-C-2—Townships 11 and 12 in ranges 5 and 6 west of the second meridian. Secretary-treasurer: Ayton Safford, Hazelwood.

7-C-2—Townships 13 and 14 in ranges 5 and 6 west of the second meridian. Secretary-treasurer: Robert Brown, Crystal Springs.

8-C-2—Townships 15 and 16 in ranges 5 and 6 west of the second meridian. Secretary-treasurer: M. S. Deacon, Grenfell, Assa.

10-C-2—Townships 18 and 19a in Range 5 and townships 19 and 20 in ranges 5 and 6 west of the second meridian. Secretary-treasurer: David Palmer, Grayson, Assa.

- 11-C-2—Townships 21 and 22 in ranges 5 and 6 west of the second meridian.
Secretary-treasurer :
- 12-C-2—Townships 23 and 24 in ranges 5 and 6 west of the second meridian.
Secretary-treasurer : F. J. Stowers, Otthon, Assa.
- 13-C-2—Townships 25 and 26 in ranges 5 and 6 west of the second meridian.
Secretary-treasurer : James B. Swallow, Willowbrook.
- 14-C-2—Townships 27 and 28 in ranges 5 and 6 west of the second meridian.
Secretary-treasurer : Geo. Fernie, Beaverdale, Assa.
- 1-D-2—Townships 1 and 2 in ranges 7 and 8 west of the second meridian.
Secretary-treasurer : W. J. Hobbs, Estevan, Assa.
- 2-D-2—Townships 3 and 4 in ranges 7 and 8 west of the second meridian.
Secretary-treasurer : Henry Yardley, Estevan, Assa.
- 3-D-2—Townships 5 and 6 in ranges 7 and 8 west of the second meridian.
Secretary-treasurer : James Cremer, Estevan, Assa.
- 4-D-2—Townships 7 and 8 in ranges 7 and 8 west of the second meridian.
Secretary-treasurer : R. McKenzie, Stoughton, Assa.
- 5-D-2—Townships 9 and 10 in ranges 7 and 8 west of the second meridian.
Secretary-treasurer : W. F. Carefoot, Stoughton.
- 6-D-2—Townships 11 and 12 in ranges 7 and 8 west of the second meridian.
Secretary-treasurer : Archie McIndoe, Graytown, Assa.
- 7-D-2—Townships 13 and 14 in ranges 7 and 8 west of the second meridian.
Secretary-treasurer :
- 8-D-2—Townships 15 and 16 in ranges 7 and 8 west of the second meridian.
Secretary-treasurer : J. H. Brierly, Grenfell.
- 9-D-2—Township 17 in range 6 and townships 17, 18 and 19a in ranges 7 and 8 west of the second meridian. Secretary-treasurer : G. D. Fitzgerald, Grenfell.
- 10-D-2—Townships 19 and 20 in ranges 7 and 8 west of the second meridian.
Secretary-treasurer : J. W. Redgwick, Nendorf.
- 11-D-2—Townships 21 and 22 in ranges 7 and 8 west of the second meridian.
Secretary-treasurer : Edward Sargeant, Rosemount.
- 12-D-2—Townships 23 and 24 in ranges 7 and 8 west of the second meridian.
Secretary-treasurer : John J. Ellingson, Plainview.
- 13-D-2—Townships 25 and 26 in ranges 7 and 8 west of the second meridian.
Secretary-treasurer : P. Duff, Beaverdale, Assa.
- 14-D-2—Townships 27 and 28 in ranges 7 and 8 west of the second meridian.
Secretary-treasurer : A. C. Tracy, Theodore, Assa.
- 1-E-2—Townships 1 and 2 in ranges 9 and 10 west of the second meridian.
Secretary-treasurer : Wm. Stoll, Estevan, Assa.
- 2-E-2—Townships 3 and 4 in ranges 9 and 10 west of the second meridian.
Secretary-treasurer : M. J. Breen, Macoun, Assa.
- 3-E-2—Townships 5 and 6 in ranges 9 and 10 west of the second meridian.
Secretary-treasurer : E. Rollins, Macoun, Assa.
- 4-E-2—Townships 7 and 8 in ranges 9 and 10 west of the second meridian.
Secretary-treasurer : C. M. Gohn, Hudmore, Assa.
- 5-E-2—Townships 9 and 10 in ranges 9 and 10 west of the second meridian.
Secretary-treasurer : W. C. Carrothers, Creelman.
- 6-E-2—Townships 11 and 12 in ranges 9 and 10 west of the second meridian.
Secretary-treasurer : H. J. McDiarmid, Fillmore.
- 7-E-2—Townships 13 and 14 in ranges 9 and 10 west of the second meridian.
Secretary-treasurer : N. W. McLeod, Charing, Assa.
- 8-E-2—Township 15 in ranges 9, 10 and 11 and township 16 in ranges 9 and 10 west of the second meridian. Secretary-treasurer : Wm. Green, Wolseley, Assa.
- 9-E-2—Townships 17, 18 and 19a in ranges 9 and 10 west of the second meridian. Secretary-treasurer : W. P. Osler, Wolseley, Assa.
- 10-E-2—Townships 19 and 20 in ranges 9 and 10 west of the second meridian.
Secretary-treasurer : Wm. Jolly, Lemberg, Assa.
- 11-E-2—Townships 21 and 22 in range 9, township 21 in range 10, and portions not included in Indian Reserve of township 22 in range 10 west of the second meridian. Secretary-treasurer : John Teece, Lortie.
- 15-E-2—Townships 29 and 30 in ranges 9 and 10 west of the second meridian.
Secretary-treasurer : J. F. Odell, Sheho.
- 2-H-2—Townships 3 and 4 in ranges 11 and 12 west of the second meridian.
Secretary-treasurer : J. H. Holmes, Macoun.
- 3-H-2—Townships 5 and 6 in ranges 11 and 12 west of the second meridian.
Secretary-treasurer : W. H. Smith, Halbrite.
- 4-H-2—Townships 7 and 8 in ranges 11 and 12 west of the second meridian.
Secretary-treasurer : F. A. Hunter, Halbrite.
- 5-H-2—Townships 9 and 10 in ranges 11 and 12 west of the second meridian.
Secretary-treasurer : Walter Stewart, Fillmore.

6-H-2—Townships 11 and 12 in ranges 11 and 12 west of the second meridian. Secretary-treasurer: J. E. Keeler, Osage.

7-H-2—Townships 13 and 14 in ranges 11 and 12 and township 14 in range 13 west of the second meridian. Secretary-treasurer: J. H. Huffman, Osage.

11-H-2—Townships 20 and 21 in range 11, townships 21 and 22 in range 12, and portions not included in Indian Reserve of township 22 in range 11, portions north and east of Qu'Appelle river and lakes of township 20 in range 12 west of the second meridian and portions north of Qu'Appelle river of townships 19 and 19a in range 11. Secretary-treasurer: J. A. Balfour, Balcarres, Assa.

14-H-2—Townships 27 and 28 in ranges 11 and 12 west of the second meridian. Secretary-treasurer: T. G. Gates, Maltby, Assa.

15-H-2—Townships 29 and 30 in range 11 and 12 west of the second meridian. Secretary-treasurer: Leeson Kidd, Foam lake, Assa.

16-H-2—Townships 31 and 32 in ranges 11 and 12 west of the second meridian. Secretary-treasurer: R. E. Coupland, Foam Lake, Assa.

3-J-2—Townships 5 and 6 in ranges 13 and 14 west of the second meridian. Secretary-treasurer: Wm. Pepper, Weyburn, Assa.

4-J-2—Townships 7 and 8 in ranges 13 and 14 west of the second meridian. Secretary-treasurer: J. McTaggart, Weyburn, Assa.

5-J-2—Townships 9 and 10 in ranges 13 and 14 west of the second meridian. Secretary-treasurer: J. W. Smith, box 20, Weyburn, Assa.

6-J-2—Townships 11, 12 and 13 in ranges 13 and 14 west of the second meridian. Secretary-treasurer: John Simpson, Tyvan, Assa.

11-J-2—Portion south of Qu'Appelle river of township 20 in range 12 and townships 20, 21 and 22 in ranges 13 and 14 west of the second meridian. Secretary-treasurer: W. M. Thomson, Fort Qu'Appelle, Assa.

12-J-2—Townships 23 and 24 in ranges 13 and 14 west of the second meridian. Secretary-treasurer: Jos. A. Atkinson, Lipton, Assa.

16-J-2—Townships 33 and 34 in ranges 13 and 14 west of the second meridian. Secretary-treasurer: Wm. Bole, Wadena Lake, Assa.

4-M-2—Townships 7 and 8 in ranges 15 and 16 west of the second meridian. Secretary-treasurer: R. F. May, Weyburn, Assa.

5-M-2—Townships 9 and 10 in ranges 15 and 16 west of the second meridian. Secretary-treasurer: James Smith, Yellow Grass, Assa.

6-M-2—Townships 11, 12 and 13 in ranges 15 and 16 west of the second meridian. Secretary-treasurer: John J. Nicol, Yellow Grass, Assa.

11-M-2—Portions not in Indian Reserve of township 21 in ranges 15, 16 and 17 and township 22 in ranges 15, 16 and 17 west of the second meridian. Secretary-treasurer: F. S. Proctor, Loon Creek, Assa.

21-M-2—Townships 43 and 44 in ranges 15 and 16, west of the second meridian. Secretary-treasurer: C. J. Lutes, Tisdale, Sask.

5-N-2—Townships 9 and 10 in ranges 17 and 18 west of the second meridian. Secretary-treasurer: Thos. Murray, Yellow Grass, Assa.

6-N-2—Townships 11 and 12 in ranges 17 and 18 west of the second meridian. Secretary-treasurer:—S. C. Wright, Lang, Assa.

7-N-2—Townships 13 and 14 in ranges 17 and 18 west of the second meridian. Secretary-treasurer: J. J. McDonough, Milestone, Assa.

8-N-2—Townships 15 and 16 in ranges 17 and 18 west of the second meridian. Secretary-treasurer: Thos. F. McGregor, Regina, Assa.

9-N-2—Townships 17 and 18 in ranges 17 and 18 west of the second meridian. Secretary-treasurer: Thos. D. Kemp, Balgonie, Assa.

10-N-2—Townships 19 and 20 ranges 17 and 19 and township 19 in range 18 west of the second meridian. Secretary-treasurer: W. H. Davis, Foxleigh, Assa.

21-N-2—Townships 43 and 44 in ranges 17 and 18 west of the second meridian. Secretary-treasurer: Jos. A. Grainger, Melfort, Sask.

22-N-2—Townships 45 and 46 in ranges 17 and 18 west of the second meridian. Secretary-treasurer: Walter Starkey, Star City, Sask.

6-P-2—Townships 11 and 12 in ranges 19 and 20 west of the second meridian. Secretary-treasurer: G. A. Sylte, Milestone, Assa.

7-P-2—Townships 13 and 14 in ranges 19 and 20 west of the second meridian. Secretary-treasurer: John A. Weir, Wilcox, Assa.

8-P-2—Townships 15 and 16 in ranges 19 and 20 west of the second meridian. Secretary-treasurer: J. C. Moore, Regina, Assa.

9-P-2—Townships 17 and 18 in ranges 19 and 20 west of the second meridian. Secretary-treasurer: S. Chivers-Wilson, Regina, Assa.

10-P-2—Townships 19 and 20 in ranges 20 and 21 west of the second meridian. Secretary-treasurer: Jas. Russell, Craven, Assa.

12-P-2—Townships 23 and 24 in ranges 19 and 20 west of the second meridian. Secretary-treasurer:

13-P-2—Townships 25 and 26 in ranges 19 and 20 west of the second meridian. Secretary-Treasurer: Hugh Holmes, Strassburg, Assa.

21-P-2--Townships 43 and 44 in ranges 19 and 20 west of the second meridian. Secretary-treasurer: J. N. Irvine, Pleasant Valley, Sask.

22-P-2--Townships 45 and 46 in ranges 19 and 20 west of the second meridian. Secretary-treasurer: John Kerr, Melfort, Sask.

7-R-2--Townships 13 and 14 in ranges 21 and 22 west of the second meridian. Secretary-treasurer: G. L. McKee, Rouleau, Assa.

8-R-2--Townships 15 and 16 in ranges 21 and 22 west of the second meridian. Secretary-treasurer: C. B. Hastings, Rouleau, Assa.

9-R-2--Townships 17 and 18 in ranges 21, 22 and 23 west of the second meridian. Secretary-treasurer: Ed. Oliver, Peuse, Assa.

10-R-2--Townships 19 and 20 in ranges 22 and 23 west of the second meridian. Secretary-treasurer: John Martin, Glen Valley, Assa.

12-R-2--Townships 23 and 24 in ranges 21 and 22, township 24 in range 23 and portions east of Last Mountain lake of township 23 in range 23 and township 24 in range 24 all west of the second meridian. Secretary-treasurer, J. A. House, Strassburg, Assa.

18-R-2--Townships 37 and 38 in ranges 21 and 22 west of the second meridian. Secretary-treasurer: John J. Ecker, Muenster, Sask.

19-R-2--Townships 39 and 40 in ranges 21 and 22 west of the second meridian. Secretary-treasurer: F. X. Strueby, Dead Moose Lake, Sask.

22-R-2--North half of township 44 in range 21, township 45 in ranges 21 and 22, fractions of township 46 in ranges 21 and 22, township 45 in range 21a and township 45a in range 22 west of the second meridian. Secretary-treasurer: J. S. Forsyth, Kinistino, Sask.

23-R-2--Townships 47 and 48 in range 21, portion south of river of township 49 in range 21, east half of township 47 in range 22 and portion south and east of river of east halves of townships 48 and 49 in range 22 west of the second meridian. Secretary-treasurer: Geo. Manson, Weldon, Sask.

24-R-2--Portions south of Saskatchewan river of west halves of townships 47 and 48 in range 22, township 47 in range 23, portion south of river of township 48 in range 23, portions south and east of river not included in Indian Reserve of townships 47 and 48 in range 24 and township 48 in range 24a, township 47a in ranges 24 and 25 all west of the second meridian. Secretary-treasurer: R. B. Atkinson, Kyle, Sask.

6-S-2--Townships 11 and 12 in ranges 23 and 24 west of the second meridian. Secretary-treasurer:

7-S-2--Townships 13 and 14 in ranges 23 and 24 west of the second meridian. Secretary-treasurer: Wm. L. McRorie, New Warren, Assa.

8-S-2--Townships 15 and 16 in ranges 23, 24 and 25 west of the second meridian. Secretary-treasurer: C. A. Mills, Pasqua, Assa.

9-S-2--Townships 17 and 18 in ranges 24 and 25 west of the second meridian. Secretary-treasurer: R. M. Johnson, Eastview, Assa.

12-S-2--Portions west of lake in township 23 in ranges 23 and 24, township 24 in range 24 and townships 23 and 24 in range 25 west of the second meridian. Secretary-treasurer:

18-S-2--Townships 37 and 38 in ranges 23 and 24 west of the second meridian. Secretary-treasurer:

20-S-2--Townships 41 and 42 in ranges 24 and 25 west of the second meridian. Secretary-treasurer: Rev. Th. Schmid, Bonne Madonne, Sask.

22-S-2--Townships 45 and 46 in ranges 23 and 24 west of the second meridian. Secretary-treasurer: George Taylor, Jr., Brancepeth, Sask.

23-S-2--Portions between north and south branches of Saskatchewan river of townships 48 and 49 in ranges 22 and 23, township 48 in range 24a, township 49 in range 24 and townships 47 and 48 in ranges 24 and 25 west of the second meridian. Secretary-treasurer: G. S. Reid, Cecil, Sask.

8-T-2--Townships 15 and 16 in ranges 26 and 27 and township 16 in range 28 west of the second meridian. Secretary-treasurer: W. T. Cunningham, Box 412, Moose Jaw, Assa.

9-T-2--Townships 17 and 18 in ranges 26 and 27 west of the second meridian. Secretary-treasurer: W. H. Smith, Moose Jaw, Assa.

10-T-2--Townships 19 and 20 in ranges 26 and 27 west of the second meridian. Secretary-treasurer: G. H. Logan, Moose Jaw, Assa.

12-T-2--Townships 23 and 24 in ranges 26 and 27 west of the second meridian. Secretary-treasurer: George Patton, Aylesbury, Assa.

19-T-2--Townships 39 and 40 in ranges 25 and 26 west of the second meridian. Secretary-treasurer: Peter Arnoldy, Alvena, Sask.

21-T-2--Townships 43 and 44 in ranges 25 and 26 west of the second meridian. Secretary-treasurer: G. R. B. Green, Domremy, Sask.

22-T-2--Township 46 in ranges 25 and 26, township 45 in ranges 26 and 27 including river lots, township 46 in range 27 and townships 45 and 46 in range 28

west of the second meridian. Secretary-treasurer: W. H. S. Gange, Box 96, Prince Albert, Sask.

23-T-2—Townships 47 and 48 in ranges 26 and 27 and township 47 in range 28 west of the second meridian. Secretary-treasurer: R. J. M. Sutherland, Prince Albert.

24-T-2—Townships 45 and 46a in range 25 and townships 45a and 46a in range 26 west of the second meridian. Secretary-treasurer: Ben Cook, Deer Lodge, Sask.

9-W-2—Townships 17 and 18 in ranges 28 and 29 west of the second meridian. Secretary-treasurer: James Gilmour, Caron, Assa.

10-W-2—Townships 19 and 20 in range 28 and townships 19 and 20 in ranges 29 and 30 west of the second meridian. Secretary-treasurer: A. E. Sturgeon, Caron, Assa.

12-W-2—Townships 23 and 24 in ranges 28 and 29 west of the second meridian. Secretary-treasurer: A. H. Birch, Craik, Assa.

21-W-2—Townships 43, 44, 45a and part south of Saskatchewan river of township 46a range 27 and fractions of townships 43, 44 and 45a including river lots and portion south of river and river lots of township 45 in range 28 west of the second meridian. Secretary-treasurer: Louis Schmidt, St. Louis, Sask.

17-A-3—Townships 33 and 34 in ranges 1 and 2 west of the third meridian. Secretary-treasurer: Henry Rodwell, Curzon, Assa.

21-A-3—Portions west of Saskatchewan river of township 42 in ranges 1 and 2 and township 41 in ranges 2 and 3 township 42 in range 3 and townships 41 and 42 in range 4 west of the third meridian. Secretary-treasurer: J. H. Klassen, Rosthern, Sask.

22-A-3—Portions west of the Saskatchewan river of townships 43a, 43 and 44 in range 1, townships 43a, 43 and 44 in range 2, township 43a and portion not in Indian Reserve of township 43 in range 3 all west of the third meridian. Secretary-treasurer: Sager Wheeler, Rosthern, Sask.

23-A-3—Townships 45 and south half of 46 in range 1, township 45 in ranges 2 and 3, township 46 in range 2 and portion east of Saskatchewan river of township 46 in range 3 all west of the third meridian. Secretary-treasurer: Wray Peterson, Wingard, Sask.

24-A-3—North half of township 46 and township 47 in range 1, portion south of Saskatchewan river of township 48 in range 1, township 47 and portions east of Saskatchewan river of township 48 in range 2, and portions east of Saskatchewan river of township 47 in range 3 all west of the third meridian. Secretary-treasurer: Dennis Duffy, Lily Plain, Sask.

17-B-3—Townships 32, 33 and 34 in ranges 3 and 4 west of the third meridian. Secretary-treasurer: L. Carson, Dundurn, Assa.

18-B-3—Townships 35 and 36 in ranges 3 and 4, portions east of South Saskatchewan river of townships 35 and 36 in range 5 and portions south of South Saskatchewan river of township 35 in range 6 all west of the third meridian. Secretary-treasurer: R. Maule, Nutana, Sask.

22-B-3—Portions not in Indian reserve of township 44 in range 3: township 43, portions east of Saskatchewan river of township 45 and township 44 including river lots in range 4, portions not in Indian Reserve of township 43 and portion east of Indian Reserve including river lots of township 44 and portion east of Saskatchewan river of township 43 in range 6 all west of the third meridian. Secretary-treasurer: George Nickel, Rosthern, Sask.

24-B-3—Townships 49 and 50 in ranges 3 and 4 west of the third meridian. Secretary-treasurer: M. Wurster, Shellbrooke, Sask.

13-C-3—Portions north and east of South Saskatchewan river of township 25 in ranges 5 and 6, township 26 in range 5, portion east of Saskatchewan river of township 26 in range 6 and township 26 in range 7 all west of the third meridian. Secretary-treasurer: Fred Weller, Davidson, Assa.

18-C-3—Fraction of township 36 in range 5 and portions west of Saskatchewan river of townships 35 and 36 in ranges 6 and 7 west of the third meridian. Secretary-treasurer: J. H. C. Willoughby, Saskatoon, Sask.

19-C-3—Townships 37 and 38 in ranges 5, 6 and 7 west of the third meridian. Secretary-treasurer: Paul Dekker, Saskatoon, Sask.

20-C-3—Townships 39 and 40 in ranges 5 and 6, portions south and east of Saskatchewan river of township 39 and portion east of Saskatchewan river of township 40 in range 7 west of the third meridian. Secretary-treasurer: George Schultz, Osler, Sask.

21-C-3—Townships 41 and 42 in range 5, township 41 in range 6 and portions east of Saskatchewan river of township 41 in range 7, township 42 in ranges 6 and 7 west of the third meridian. Secretary-treasurer: Jacob D. Neufeld, Waldheim, Sask.

23-C-3—Townships 45 and 46 in ranges 5 and 6 west of the third meridian. Secretary-treasurer: James Moffatt, Marcellin, Sask.

18-E-3—Townships 35 and 36 in ranges 10 and 11 west of the third meridian. Secretary-treasurer: S. Caswell, Saskatoon, Sask.

20-E-3—Portions north and east of Saskatchewan river of township 39 in ranges 10 and 11, townships 40 and 41 in ranges 10 and 11 west of the third meridian. Secretary-treasurer: E. Hingley, Great Bend, Sask.

8-J-3—Townships 15 and 16 in ranges 13 and 14 west of the third meridian. Secretary-treasurer:

21-J-3—Portions north and east of Saskatchewan river of township 40 in range 12 and township 41 in ranges 12 and 13, townships 42 and 43 in ranges 12 and 13 west of the third meridian. Secretary-treasurer: David Mitchell, Richard, Sask.

23-N-3—Townships 46 and 47 in ranges 17 and 18 west of the third meridian. Secretary-treasurer: Neil Morrison, Meota, Sask.

23-P-3—Portions south of Saskatchewan river and west of Indian Reserve of township 45 in ranges 18 and 19 and township 46 in range 18, portions not in Indian Reserve of township 45 in ranges 20 and 21 and township 46 in ranges 21, and portions south of Saskatchewan river of township 46 in range 19 and portions south and west of river of township 46 in range 20 west of the third meridian. Secretary-treasurer: Walter Tebbs, Bresaylor, Sask.

24-T-3—Townships 47 and 48 in ranges 25 and 26 west of the third meridian. Secretary-treasurer: C. S. Hall, Wirral, Sask.

5-B-4—Townships 9 and 10 in ranges 2, 3 and 4 west of the fourth meridian. Secretary-treasurer: J. Robinson, Josephsburg, Assa.

26-B-4—Townships 51 and 52 in ranges 3 and 4 west of the fourth meridian. Secretary-treasurer: Wm. Ashworth, Lloydminster, Sask.

24-H-4—Townships 47 and 48 in ranges 11 and 12 west of the fourth meridian. Secretary-treasurer:

25-H-4—Townships 49 and 50 in ranges 11 and 12 west of the fourth meridian. Secretary-treasurer:

25-J-4—Townships 49 and 50 in ranges 13 and 14 west of the fourth meridian. Secretary-treasurer:

26-J-4—Townships 51 and 52 in ranges 12, 13 and 14 west of the fourth meridian. Secretary-treasurer: Hugh A. Glaspell, Vegreville, Alta.

27-J-4—Townships 53 and 54 in ranges 13 and 14 west of the fourth meridian. Secretary-treasurer: E. H. Wynn-McKenzie, Warwick, Alta.

28-J-4—Portions south and west of Saskatchewan river of townships 56 and 57 in range 12, townships 55 and 56 and portion south of Saskatchewan river of township 57 in range 13, township 55 and portions south of river of townships 56 and 57 in range 14 all west of the fourth meridian. Secretary-treasurer: A. M. Bontillier, Soda Lake, Alta.

21-M-4—Portions north of Battle river of townships 40 and 41 in range 15, township 42 in ranges 15 and 16, portion north and east of Battle river of township 41 in ranges 16 and 17 and portion east of river of township 42 in range 17 west of the fourth meridian. Secretary-treasurer:

22-M-4—Townships 43 and 44 in ranges 15 and 16 west of the fourth meridian. Secretary-treasurer: Fred Byrinten, Spring Lake, Alta.

25-M-4—Townships 49 and 50 in ranges 15 and 16 west of the fourth meridian. Secretary-treasurer: Chas. N. Brisbin, Vermilion Valley, Alta.

26-M-4—Townships 51 and 52 in ranges 15 and 16 and portions east of Beaver lake of townships 51 and 52 in range 17 west of the fourth meridian. Secretary-treasurer: G. W. Abbott, Vegreville, Alta.

27-M-4—Townships 53 and 54 in ranges 15 and 16 west of the fourth meridian. Secretary-treasurer: Peter Svorich, Kolomea, Alta.

28-M-4—Townships 55 and 56 in ranges 15 and 16 west of the fourth meridian. Secretary-treasurer: Thos. Hall, Whitford, Alta.

29-M-4—Portions south and west of Saskatchewan river of township 57 in range 15 and township 58 in ranges 15 and 16, township 57 in range 16 west of the fourth meridian. Secretary-treasurer: R. H. Mennie, Whitford, Alta.

20-N-4—Townships 39 and 40 in ranges 17 and 18 west of the fourth meridian. Secretary-treasurer: T. C. Barrett, Red Willow, Alta.

21-N-4—Townships 42 in range 18, portions south and west of Battle river of township 41 in ranges 16, 17 and 18 and township 42 in range 17, portions west of Battle river of township 43 in ranges 17 and 18 all west of the fourth meridian. Secretary-treasurer: D. J. Ellsworth, Red Willow, Alta.

22-N-4—Portions north of Battle river and Dried Meat lake of townships 43 and 44 in ranges 17 and 18 and township 44 in range 19 west of the fourth meridian. Secretary-treasurer: G. W. Sawyer, Ferry Point, Alta.

23-N-4—Townships 45 and 46 in ranges 17 and 18 west of the fourth meridian. Secretary-treasurer: L. H. Lewis, Heather Brae, Alta.

24-N-4—Townships 47 and 48 in ranges 17 and 18 west of the fourth meridian. Secretary-treasurer: P. Iverson, Earling, Alta.

25-N-4—Townships 49 and 50 in ranges 17 and 18 west of the fourth meridian. Secretary-treasurer: B. P. Anderson, Bardo, Alta.

28-N-4—Townships 55 and 56 in ranges 17 and 18 west of the fourth meridian. Secretary-treasurer: H. Belcher, Wostok, Alta.

29-N-4—Portions south of Saskatchewan river of townships 57 and 58 in ranges 17, 18 and 19 and township 57 in range 20 west of the fourth meridian. Secretary-treasurer: Theo. Nemirsky, Wostok, Alta.

30-N-4—Township 59 in ranges 16, 17 and 18, portions north of Saskatchewan river and including river lots of township 58 in ranges 16, 17 and 18 west of the fourth meridian. Secretary-treasurer: G. H. Harper, Pakan, Alta.

22-P-4—Township 43 in ranges 19 and 20, township 44 in range 20 and portions west of Battle river of township 44 in range 19 west of the fourth meridian. Secretary-treasurer: C. J. Hanson, Edberg, Alta.

23-P-4—Townships 45 and 46 in range 19 and portions north and east of Battle river of township 45 in range 20 and township 46 in ranges 20, 21 and 22 west of the fourth meridian. Secretary-treasurer: J. W. Hay, Skafse, Alta.

24-P-4—Townships 47 and 48 in ranges 19 and 20 west of the fourth meridian. Secretary-treasurer: Neele Nelson, Lake-de-May, Alta.

25-P-4—Townships 49 and 50 in ranges 19 and 20 west of the fourth meridian. Secretary-treasurer: Robt. J. Stirrett, Bardo, Alta.

27-P-4—Townships 53 and 54 in ranges 19 and 20 west of the fourth meridian. Secretary-treasurer: Elmer Hallberg, Ross Creek, Alta.

28-P-4—Townships 55 and 56 in ranges 19 and 20 and portions east of Saskatchewan river of township 55 in ranges 21 and 22 and township 56 in range 21 west of the fourth meridian. Secretary-treasurer: D. E. McLean, Star, Alta.

20-R-4—Townships 39 and 40 in ranges 21 and 22 west of the fourth meridian. Secretary-treasurer:

21-R-4—Townships 41 and 42 in ranges 21 and 22 west of the fourth meridian. Secretary-treasurer: A. W. McOllough, Whitebrush, Alta.

22-R-4—Townships 43 and 44 in ranges 21 and 22 and portions not in Indian Reserve of township 44 in range 23 west of the fourth meridian. Secretary-treasurer: John G. Wilcher, Lewisville, Alta.

22-R-4—Township 45 in range 21 and portions south and west of Battle river of township 45 in ranges 20 and 22 and township 46 in ranges 20, 21 and 22 west of the fourth meridian. Secretary-treasurer: A. E. Trussler, Highland Park, Alta.

24-R-4—Townships 47 and 48 in ranges 21 and 22 and portions east of Coal lake of townships 47 and 48 in range 23 west of the fourth meridian. Secretary-treasurer: E. Coleridge-Roper, Bittern Lake.

27-R-4—Townships 53 and 54 in range 21, township 53 in range 22, portions east of Saskatchewan river of township 54 in range 22 and portions south and east of Saskatchewan river of townships 53 and 54 in range 23 west of the fourth meridian. Secretary-treasurer: R. Harrison, Agricola, Alta.

28-R-4—Township 56 in range 22, townships 55 and 56 in range 23, portions west of Saskatchewan river of township 55 in range 22 and portions north and west of Saskatchewan river of township 56 in range 21 west of the fourth meridian. Secretary-treasurer: C. S. Godhout, Lamoureaux, Alta.

19-S-4—Township 37 in ranges 23, 24 and 25, portions south and east of Red Deer river of township 38 in range 23 and portions south of Red Deer river of township 38 in ranges 24 and 25 west of the fourth meridian. Secretary-treasurer: W. J. H. Hampton, Coalbanks, Alta.

20-S-4—Townships 38, 39 and 40 in ranges 23 and 24 west of the fourth meridian. Secretary-treasurer: P. Russel, Bullocksville, Alta.

21-S-4—Townships 41 and 42 in ranges 23 and 24 west of the fourth meridian. Secretary-treasurer: Geo. De Graff, Earlville, Alta.

22-S-4—Townships 43 and 44 in range 26 and portions not included in Indian Reserve of township 43 in ranges 23 and 24 and townships 43 and 44 in range 25 west of the fourth meridian. Secretary-treasurer: Dr. W. Pulleyblank, Ponoka, Alta.

23-S-4—Townships 45 and 46 in range 23, township 46 in ranges 24 and 25, east half of township 45 in range 24 and portions west of Battle river of townships 45 and 46 in range 23 west of the fourth meridian. Secretary-treasurer: H. D. Farris, Wetaskiwin, Alta.

24-S-4—Townships 47 and 48 in ranges 24 and 25 and portions west of Coal lake of townships 47 and 48 in range 23 west of the fourth meridian. Secretary-treasurer: P. J. Mullen, Millet, Alta.

25-S-4—Townships 49 and 50 in ranges 23, 24 and 25 west of the fourth meridian. Secretary-treasurer: Win. Douglas, Leduc, Alta.

26-S-4—Townships 51 and 52 in range 23, township 51 in range 24 and portions south and east of Saskatchewan river of township 52 in range 24 and townships 51 and 52 in range 25 west of the fourth meridian. Secretary-treasurer: James Grove, Strathcona, Alta.

27-S-4—Townships 53 and 54 in range 24, portions north and west of Saskatchewan river of townships 53 and 54 of range 23, portions south and east of Sturgeon river of townships 53 and 54 in range 23, portion north and west of Saskatchewan river of township 52 in range 25 and portion north and west of Sturgeon river of township 54 in range 25 west of the fourth meridian. Secretary-treasurer: Francis C. Clare, Edmonton, Alta.

28-S-4—Townships 55 and 56 in ranges 24 and 25 west of the fourth meridian. Secretary-treasurer: C. McLaughlin, Namaso, Alta.

29-S-4—Townships 57 and 58 in ranges 24 and 25 west of the fourth meridian. Secretary-treasurer: Ronald Morin, Legal, Alta.

10-T-4—Townships 19 and 20 in ranges 25 and 26 and portions south of Bow river of townships 21 and 22 in range 25 and to township 21 in range 26 west of the fourth meridian. Secretary-treasurer: E. A. Daggett, Dinton, Alta.

15-T-4—Townships 29 and 30 in ranges 25 and 26 west of the fourth meridian. Secretary-treasurer:

16-T-4—Townships 31 and 32 in ranges 25 and 26 west of the fourth meridian. Secretary-treasurer: John McAlpine, Sunny Slope, Alta.

17-T-4—Townships 33 and 34 ranges 25 and 26 west of the fourth meridian. Secretary-treasurer: J. H. McArthur, Knee Hill Valley, Alta.

18-T-4—Townships 35 and 36 in ranges 25 and 26 west of the fourth meridian. Secretary-treasurer: J. S. Sparks, Milverton, Alta.

19-T-4—Township 37 ranges 26 and 27, portions south of Red Deer river of townships 38 and 39 range 26, portions east of Red Deer river township 37 in range 28 and portions south and east of Red Deer river of township 38 ranges 27 and 28 and township 39 in range 27 west of the fourth meridian. Secretary-treasurer: John J. Gaetz, Red Deer, Alta.

20-T-4—Townships 39 and 40 range 25, township 40 range 26, portions north of Red Deer river of township 38 ranges 25 and 26 and township 39 range 26 west of the fourth meridian. Secretary-treasurer: James L. Storey, Lacombe, Alta.

21-T-4—Townships 41 and 42 ranges 25 and 26 west of the fourth meridian. Secretary-treasurer: W. H. Johnson, Morningside, Alta.

23-T-4—Townships 45 and 46 ranges 26, 27 and 28 west of the fourth meridian. Secretary-treasurer: L. P. Larson, Wetaskiwin, Alta.

24-T-4—Townships 47 and 48 ranges 26, 27 and 28 west of the fourth meridian. Secretary-treasurer: R. Sheppard, Patience, Alta.

25-T-4—Township 49 range 26, 27 and 28 and portions south of river of township 50 ranges 26, 27 and 28 west of the fourth meridian. Secretary-treasurer: C. J. Blomquist, Calmar, Alta.

26-T-4—Townships 51 and 52 range 26, fractions of townships 51 and 52 ranges 27 and 28, and portions north of Saskatchewan river in township 50 ranges 26, 27 and 28 west of the fourth meridian. Secretary-treasurer: Geo. Sutherland, Spruce Grove, Alta.

27-T-4—Townships 53 and 54 range 26 and portions not in Indian Reserve of townships 53 and 54 range 27 west of the fourth meridian. Secretary-treasurer: William Bristow, Spruce Grove, Alta.

28-T-4—Townships 55 and 56 range 26 and portions not in Indian Reserve of townships 55 and 56 range 27 west of the fourth meridian. Secretary-treasurer: Nestor Noel, Riviere qui Barre, Alta.

29-T-4—Townships 57 and 58 ranges 26 and 27 west of the fourth meridian. Secretary-treasurer: Wm. A. Elliott, Independence, Alta.

8-W-4—Townships 15 and 16 ranges 27, 28 and 29 west of the fourth meridian. Secretary-treasurer: Jas. T. Cooper, Nanton, Alta.

9-W-4—Townships 17 and 18 ranges 27, 28 and 29 west of the fourth meridian. Secretary-treasurer: H. G. Wright, Cayley, Alta.

10-W-4—Townships 19 and 20 and portion south of Bow river of township 21 in range 27, portions south and east of Bow river of townships 19, 20 and 21 in range 28 west of the fourth meridian. Secretary-treasurer: H. H. Wilson, Davisburg.

12-W-4—Townships 22 and 23 in ranges 26 and 27, south half of township 24 in ranges 26 and 27 and portion north of Bow river in township 21 ranges 26 and 27 west of the fourth meridian. Secretary-treasurer: Sanford Whitney, Langdon, Alta.

15-W-4—Townships 29 and 30 in ranges 27, 28 and 29 west of the fourth meridian. Secretary-treasurer: Charles Carlin, Carstairs, Alta.

16-W-4—Townships 31 and 32 in ranges 27, 28 and 29 west of the fourth meridian. Secretary-treasurer: Wm. L. Fischer, Olds, Alta.

17-W-4—Townships 33 and 34 in ranges 27, 28 and 29 west of the fourth meridian. Secretary-treasurer: C. E. Kenny, Olds, Alta.

18-W-4—Townships 35 and 36 in range 27, township 35 and portion east of Red Deer river of township 36 in range 28 west of the fourth meridian, and

townships 35 and 36 in ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: Ed. J. Fream, Innisfail, Alta.

20-W-4—Township 40 in ranges 27 and 28, portion west of Red Deer river of township 39 in range 27 and portions north and west of Red Deer river of township 39 in range 28 west of the fourth meridian. Secretary-treasurer: Percy B. Gregson, Blackfalds, Alta.

21-W-4—Townships 41 and 42 in ranges 27 and 28 west of the fourth meridian. Secretary-treasurer: T. C. King, Iowalta, Alta.

22-W-4—Townships 43 and 44 in ranges 27 and 28 west of the fourth meridian. Secretary-treasurer:

2-Z-4—Townships 3 and 4 in ranges 29 and 30 and township 4 in range 28 west of the fourth meridian. Secretary-treasurer: E. H. Hillier, Yarrow, Alta.

3-Z-4—Townships 5 and 6 in ranges 28, 29 and 30 west of the fourth meridian. Secretary-treasurer: A. E. Cox, Pincher Creek, Alta.

10-Z-4—Portions west of Highwood river of township 20 in ranges 28 and 29, portion south and west of Highwood river of township 21 in range 28, portion south of Bow river of township 22 in range 28 and townships 21 and 22 in range 29 west of the fourth meridian; township 20 in ranges 1, 2 and 3 west of the fifth meridian. Secretary-treasurer: E. A. Hayes, Okotoks, Alta.

12-Z-4—Townships 22 and 23 in range 28, portions north of Bow river of township 21 in range 28, portions north and east of Bow river of township 21 in range 29, portion east of Bow river of townships 22 and 23 in range 29, south halves of township 24 in ranges 28 and 29 all west of the fourth meridian; portions east of Bow river of townships 23 and 24 in range 1 west of the fifth meridian. Secretary-treasurer: P. Rochon, Shepard, Alta.

3-A-5—Townships 5 and 6 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: A. E. Cox, Pincher Creek, Alta.

4-A-5—Townships 7 and 8 in ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: R. H. Burn, Gillingham, Alta.

9-A-5—Township 17 ranges 2 and 3, portions south of Highwood river of townships 17 and 18 in range 1 and township 18 in ranges 2 and 3 west of the fifth meridian. Secretary-treasurer:

10-A-5—Portions west of Highwood river of township 19 in ranges 28 and 29 west of the fourth meridian; township 19 in ranges 1, 2 and 3 and portions north of Highwood river of township 18 in ranges 1, 2 and 3 west of the fifth meridian. Secretary-treasurer:

11-A-5—Townships 21 and 22 in ranges 1 and 2 and portions between Bow and Elbow rivers of township 23 in range 1 west of the fifth meridian. Secretary-treasurer: Wm. Birney, Box 233, Calgary, Alta.

12-A-5—Portion north and west of Elbow river of township 23 in range 1, portion south of Bow river of township 24 in range 1, portions south and west of Bow river of townships 24 and 25 in range 2 and township 25 in range 3, township 24 in range 3 and east half of township 24 in range 4 all west of the fifth meridian. Secretary-treasurer: Chas. Jackson, Box 690, Calgary, Alta.

13-A-5—North half of townships 24 in range 1 and portions north and east of Bow river of townships 25 and 26 range 1, townships 24, 25 and 26 in range 2 west of the fifth meridian. Secretary-treasurer: C. W. Perry, Box 422, Calgary, Alta.

14-A-5—Townships 27 and 28 in ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: R. L. Boyle, Crossfield, Alta.

15-A-5—Townships 29 and 30 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: M. B. Clemens, Carstairs, Alta.

16-A-5—Townships 31 and 32 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: George Price, Olds, Alta.

17-A-5—Townships 33 and 34 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: Colin Thomson, Red Lodge, Alta.

18-A-5—Portion west of Red Deer river of township 36 in range 28 west of the fourth meridian; portions north of Red Deer river of township 36 ranges 1, 2, 3 and 4 and township 35 in ranges 2, 3 and 4 west of the fifth meridian. Secretary-treasurer: M. Sweeney, Markerville, Alta.

19-A-5—Portion west of Red Deer river of township 38 in ranges 27 and 28 and township 37 in range 28 west of the fourth meridian; townships 37 and 38 in ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: L. Martin, Red Deer, Alta.

20-A-5—Townships 39 and 40 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: J. W. Shirkey, Bentley, Alta.

21-A-5—Townships 41 and 42 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: C. H. Whitworth, Lacombe, Alta.

22-A-5—Townships 43 and 44 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer:

26-A-5—Townships 51 and 52 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: Chas. Mills, Inga, Alta.

27-A-5—Townships 53 and 54 in range 28 west of the fourth meridian and townships 53 and 54 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: Ed. Steffler, Spruce Grove, Alta.

11-B-5—Townships 21 and 22 ranges 3 and 4 west of the fifth meridian. Secretary-treasurer: Wm. H. King, Millarville, Alta.

15-B-5—Townships 29 and 30 in ranges 3 and 4 west of the fifth meridian. Secretary-treasurer: G. B. Hunter, Dog Pound, Alta.

16-B-5—Townships 31 and 32 ranges 3 and 4 west of the fifth meridian. Secretary-treasurer: Walter B. Smith, Didsbury, Alta.

17-B-5—Townships 33 and 34 range 3, township 33 range 4, portion south of Red Deer river of township 35 in range 3, portion south and east of river of township 34 in range 4 and portion east of river of township 33 range 5 west of the fifth meridian. Secretary-treasurer: Nicholas Moor, Eagle Hill, Alta.

19-B-5—Townships 37 and 38 ranges 3 and 4 west of the fifth meridian. Secretary-treasurer: J. M. Craig, Markerville, Alta.

20-B-5—Townships 39 and 40 in ranges 3 and 4 west of the fifth meridian. Secretary-treasurer: A. Douglas, Evarts, Alta.

27-B-5—Townships 53 and 54 ranges 3 and 4 west of the fifth meridian. Secretary-treasurer: C. H. Dunn, Mewassin, Alta.

13-C-5—Township 27 ranges 5 and 6 and portions north of Bow river of township 26 ranges 5 and 6 west of the fifth meridian. Secretary-treasurer: H. Payn LeSueur, Cochrane, Alta.

Evidence of the popularity of small district organisation is shown by the large number of petitions which have been received, these petitions being, as a rule, the preparatory steps to such organisation.

At the beginning of the year the large districts were reorganised, their boundaries being made to correspond with those of the electoral districts. On account of the increased assessable area and the heavy immigration of the last few years, it was nearing the close of 1904 before all the large districts were assessed.

From large local improvement districts in 1904, local improvement taxes to the amount of \$132,643.96 were collected and the number of receipts issued 16,646.

The sum of \$25,927.69 for arrears of taxes in small districts was collected by this branch and forwarded to secretary-treasurers.

Arrears of taxes in school districts amounting to \$13,987.53 were collected and sent to school treasurers.

These amounts were paid by cheque, the number issued to small local improvement district secretary-treasurers being 2,467 and to school treasurers 1,600.

The work of correspondence in connection with these arrears, (both school and local improvement) has grown to such an extent that it comprises a large part of the duties of the branch. The failure of some secretary-treasurers to promptly forward returns from school and small local improvement districts and to notify this branch of all payments of arrears made, has entailed considerable work that otherwise would not have been necessary.

An idea of the general correspondence of the branch may be gathered from the fact that in 1904 the amount of mail matter received was 46,232 items. The amounts sent out was 124,924 items, which was composed of 21,418 letters, 22,180 receipts, 79,478 notices and circulars and 3,048 cheques.

The assessment of large districts for 1904 was as follows:

No.	District	Amount of Assessment	Amount Collected	Amount Expended
		\$ c.	\$ c.	\$ c.
550	Banff	4,245 89	1,434 45	1,279 16
551	Battleford	19,015 69	5,511 52	1,099 83
552	Batoche	4,671 25	2,043 35	1,240 33
553	Cardston	14,191 92	10,168 49	8,719 18
554	Cannington	4,712 10	3,510 67	972 45
555	Calgary, East	7,437 73	1,817 26	789 99
556	Calgary, West	7,472 24	2,311 37	1,805 88
557	Edmonton	760 82	190 26	583 61
558	Grenfell	2,090 90	1,456 71	1,133 95
559	High River	6,431 32	996 47	6,311 75
560	Innisfail	3,721 74	1,269 37	418 21
561	Kinistino	5,197 76	2,586 66	1,516 03
562	Lacombe	8,981 52	3,062 22	957 50
563	Lethbridge	21,416 97	6,237 69	4,905 59
564	Macleod	15,193 15	2,183 77	478 13
565	Maple Creek	19,230 09	15,668 42	7,136 55
566	Medicine Hat	12,992 40	4,571 14	3,822 56
567	Mitchell	2,260 34	377 64	573 65
568	Moosomin	All small dist's.	48 00	400 62
569	Moose Jaw	26,089 94	11,810 93	4,774 37
570	Prince Albert	717 53	336 23	518 18
571	Qu'Appelle, South	8,653 57	8,387 40	2,625 22
572	Qu'Appelle, North	9,118 94	5,120 86	1,853 37
573	Regina, North	7,655 80	2,896 24	719 82
574	Regina, South	5,306 23	5,340 61	2,814 72
575	Saltcoats	6,552 39	2,552 12	715 05
576	Saskatoon	11,800 36	7,375 17	2,970 32
577	Souris	7,300 46	10,830 92	950 33
578	Strathcona	5,384 93	2,434 69	1,015 79
579	St. Albert	2,135 67	317 89	665 75
580	Victoria	2,702 23	627 13	2,230 30
581	Wetaskiwin	7,439 49	2,858 87	1,241 68
582	Whitewood	All small dist's.	485 59	407 63
583	Wolseley	530 88	382 09	1,377 01
584	Yorkton	8,235 60	5,441 76	1,030 56
Totals		269,647 85	132,643 96	70,030 07

VILLAGES.

Indicative of the growth in population, as well as the common desire for self government, is the number of villages which have been formed and also the towns which have been established. The latter are as follows: Oxbow, Qu'Appelle, Battleford, Fort Saskatchewan, St. Albert, Ponoka, Okotoks. A complete list of the villages established up to the end of 1904 is given below :—

NAME OF VILLAGE	NAME OF OVERSEER	DATE OF ESTABLISHMENT
Abernethy	Joseph Tully	June 22, 1904
Alameda	J. J. Heaslip	December 29, 1896
Balgonie	George Hntton	April 20, 1903
Balcarres	John H. Murphy	November 18, 1904
Blackfalds	James McNicol	June 17, 1904
Blairmore	William A. Beebe	September 3, 1901
Bowden	James I. Brewster	June 17, 1904
Broadview	Richard Robinson	December 23, 1898
Carievale	M. O. Hedley	March 11, 1903
Carlyle	H. H. Rendall	March 13, 1902
Carnduff	Thomas W. Campain	March 29, 1899
Caron	R. R. Campbell	January 11, 1904

NAME OF VILLAGE	NAME OF OVERSEER	DATE OF ESTABLISHMENT
Carstairs	Robert Scott	May 15, 1903
Cayley	G. W. Wickens	August 5, 1904
Churchbridge	James Heasman	September 17, 1903
Claresholm	William Moffat	May 30, 1903
Cochrane	Dan J. Bruce	June 11, 1903
Coleman	H. N. Galer	January 7, 1904
Craik	James Parks	October 20, 1903
Davidson	Robert H. Blackmore	March 7, 1904
Didsbury	Geo. B. Sexsmith	September 24, 1901
Drinkwater	William Ansley	June 7, 1904
Duck Lake	Thomas A. Bird	December 23, 1898
Esterhazy	Geo. Wrightson	December 3, 1903
Estevan	L. A. Duncan	November 2, 1899
Fleming	W. Lemon	July 2, 1896
Forget	Adolph Huel	November 16, 1904
Francis	Jarvis T. Westgate	October 24, 1904
Frank	J. H. Farmer	September 3, 1901
Frobisher	David McKnight	July 4, 1904
Gainsboro	J. J. Sadler	May 23, 1894
Gleichen	V. I. Beaupre	January 24, 1899
Glen Ewen	David Dowkes	March 23, 1904
Grenfell	Reginald Gwynne	April 12, 1894
Hague	C. P. Unruh	August 25, 1903
Halbrite	William Scramlin	February 26, 1904
Heward	L. R. Adams	November 18, 1904
High River	W. E. G. Holmes	December 5, 1901
Innisfail	August Kremer	December 15, 1899
Irvine	Henry Vockeroth	September 17, 1905
Langenburg	James Nixon	March 27, 1903
Leavings	R. Walker Jell	July 12, 1904
Leduc	William Mogg	December 15, 1899
Lemberg	Amel Fiedellick	July 12, 1904
Lille	J. P. Guimond	February 22, 1904
Lloydminster	R. N. Blackburn	November 24, 1903
Magrath	John Lye Gibb	August 20, 1901
Macoun	E. Rollins	October 14, 1903
Manor	Philip Cooke	April 15, 1902
Melfort	Thomas Clarke	November 4, 1903
Milestone	R. B. Jones	March 11, 1903
Millet	W. F. Blades	June 11, 1903
Morinville	Philias Gandette	August 24, 1901
Mountain View	John F. Parrish	February 13, 1902
Nanton	W. A. Chisholm	June 22, 1903
North Portal	E. R. MacPhee	November 16, 1903
Nutana	William P. Bate	October 16, 1903
Olds	W. J. Brumpton	May 26, 1896
Osler	Jacob Kliewer	April 9, 1904
Penhold	N. Stewart	May 4, 1904
Pense	Dr. G. M. Ramsey	March 7, 1904
Pincher Creek	A. R. Dempster	August 18, 1898
Fort Qu'Appelle	William M. Thomson	June 2, 1898
Redvers	R. Douglas	July 9, 1904
Riverside	J. M. Lowndes	July 6, 1903
Rocanville	A. H. R. Bastien	March 23, 1904
Rosenroll	William Altvater	November 16, 1904
Rouleau	A. E. Westbrook	July 22, 1903
Rouleauville	W. R. Winter	November 2, 1899
Salteoats	A. B. Lander	April 4, 1894
Stafford	Peter Jones	May 7, 1901
Stavelly	Sydney Cooper	October 16, 1903
Stirling	Robert J. Withers	September 3, 1901
Stoughton	David Donnelly	February 4, 1904
Swift Current	Fred Jones	February 4, 1904
Tantallon	Joseph E. Paynter	June 17, 1904
Yellow Grass	Joseph W. Spratt	July 22, 1903

DRAINAGE.

During the season of 1904 four of the steam ditching machines have been in operation and a total of 45,146 ft. of drainage has been completed. The following schedule will show where the machines have been operated and the work accomplished by each.

STEAM Ditching Machines.

- No. 1—Completed 10,900 ft. on Drain No. 110 between Strathcona and Ellerslie
- No. 2—Completed 14,850 ft. on Drain No. 4 known as Favel lake drain.
- No. 3—Completed 8,175 ft. on Drain No. 30 east of Lacombe to drain into Wolf creek.
- No. 4—Completed 11,221 ft. on Drain No. 96 east of Yellow Grass.
- No. 5—At Prince Albert (not in operation).

IRRIGATION OFFICE.

Staff.....	{ 1 assistant engineer. 1 draughtsman. 1 clerk of records and correspondence clerk. 1 stenographer (temporary).
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The work of the Irrigation Office is embodied in the following schedule:

Number of letters received.....	2,310
Number of letters sent out.....	3,221
Number of forms and circulars prepared and mailed.....	2,000
Number of applications for water rights, with necessary memorials, plans and notices, examined and recorded (in duplicate)	85
Number of licences received and recorded (in triplicate).	13
Number of transfers and agreements for use of water received and recorded (in triplicate).....	179
Number of licences of occupation for right of way for irrigation works over Crown lands received and recorded	15
Number of returns, etc., received and recorded and placed on file respecting hydrographic records.....	610

During the past year many enquiries regarding irrigation in the Territories have been received, especially from settlers from the United States who have farmed lands under irrigation, and in consequence a large number of applications for water rights were filed and dealt with.

The Canadian Pacific Railway Company have proceeded with the construction of their scheme to divert water from the Bow river near Calgary. Substantial headworks have been constructed, and several contracts for excavation of the main irrigation canal completed.

The Alberta Railway and Irrigation Company (successors of the Canadian North West Irrigation Company) have also made extensive additions and improvements to their scheme for the diversion of water from St. Mary river, to provide for the reclamation of a large tract of land in the south-eastern portion of Alberta.

Settlement in the Territories during the past year has vastly increased, and is particularly noticeable in what is known as the semi-arid region, so sparsely settled heretofore, and the work of the Irrigation Office has increased proportionately.

Your obedient servant,
JOHN STOCKS.

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Operated by George Gibson.

This mine is situated about six miles from Grassy Lake and is entered by means of a slope.

Sunlight Coal Company.

This mine is situated about $2\frac{1}{2}$ miles south of Grassy Lake and is entered by means of a slope and worked by means of a modification of the long wall system. The coal is 3 ft. 3 ins. in thickness with a good roof.

Mine Operated by A. C. Gage.

This mine is situated about 12 miles south of Bow Island and is entered by means of a shaft. The coal is 26 ins. in thickness and is worked on the room and pillar system.

Mine Operated by G. W. Hines.

This mine is situated about 12 miles south of Bow Island and is entered by means of shafts. The coal seam is thin and is worked on the room and pillar system.

Mine Operated by Nat. Walwork.

This mine is situated about four miles north of Bow Island and supplies local demand only.

Mine Operated by David Long.

This mine is situated about six miles north of Bow Island, the seam being 2 ft. 10 ins. in thickness.

Mine Operated by W. J. Manary.

This mine is situated about 12 miles north of Bow Island and supplies local demand only.

Mine Operated by Julius Lavenne.

This mine is situated about 11 miles north of Bow Island and is worked on a small scale.

Mine Operated by F. Freidenberg.

This mine is situated about 25 miles south of Seven Persons and is worked on a small scale.

Mine Operated by Stephen Schmidt.

This mine has no railway connections and is only employing about four men, the output being sold to the farmers in the district.

Mine Operated by Samuel Brockhouse.

This mine, which is operated on a small scale, is situated about two miles from Milk River and is entered by means of a drift.

Mine Operated by Joseph Oborn.

This mine is situated about four miles from Milk River and is being operated on a very small scale.

Mine Operated by D. G. McKay.

This mine is situated about five miles from Milk River and is operated on a small scale.

Mine Operated by Duncan Kippen.

This property is worked by stripping the surface, as there is only 8 ft. of cover over the coal.

Iron Spring Coal Mine.

This mine is operated by George Heighes and situated about 25 miles north of Lethbridge. It is entered by means of a drift and is worked on the room and pillar system, the coal being hoisted by means of an incline on the surface to the tippie.

Bathurst Coal Company, Limited.

Authorized Capital: \$20,000,000.

President: A. T. Aithens.

Directors: A. T. Aithens, W. Sloan, A. J. McGuire and W. H. Church.

Sec.-Treasurer: W. H. Church.

Manager: A. J. McGuire.

This mine is situated about one mile north of Diamond City and is entered by means of a drift.

The coal is hoisted by means of a gasoline engine up an incline pitching at 25 degrees on the surface to the tippie.

There are no railway connections, the output being hauled in wagons to the spur track at Diamond City.

The plant at present is as follows: Engine house, built of wood and accommodates a 25 h.p. gasoline hoisting engine, a wooden tippie with bunker capacity of 25 tons, blacksmith's shop, carpenter's shop and storehouse.

EDMONTON DISTRICT

MR. ELIJAH HEATHCOTE, DISTRICT INSPECTOR OF MINES,
WETASKIWIN.

The Dawson Coal Co., Limited.

Authorized Capital: \$30,000.00.
President: Richard Gerard.
Vice-President: John Henderson.
Directors: H. J. Dawson, J. D. Hyndman and Joseph Hostyn.
Secretary: Chas. A. Hyndman.
Head Office: Edmonton, Alta.
Mine Office: Edmonton, Alta.
General Manager—Chas. A. Hyndman.
Mine Manager: J. A. McLenhan.

A three-compartment shaft, 6 ft. 6 ins. by 15 ft. 8 ins., has been sunk to the coal a distance of 112 ft. A tippie capable of handling 500 tons per day has been erected. A considerable amount of work has been done underground, the main roadways having been enlarged to allow for horse haulage. These roads have all been laid with 12 lb. steel.

The Humberstone Coal Company.

Head Office: Edmonton.
Mine Office: Clover Bar.
General Manager: E. E. Brewer.
Mine Manager: David Jones.
Master Mechanic: James Cheyns.
Pit Boss: William Duggan.

This company controls 170 acres of coal lands near Clover Bar.

A tippie has been erected capable of handling 400 tons per day, and a shaft fitted up with self-dumping cages. A 60 h.p. boiler and one 80 h.p. boiler have been installed, and a single stage air compressor and fan of the Waddle type capable of producing 12,000 cubic feet of air per minute when running at 100 revolutions has been also installed.

It is intended to have a spur track put into this mine from the main line of the Grand Trunk Pacific Railway.

Two rectangular shafts have been sunk on this property, each 11 ft. 6 ins. by 6 ft. 6 ins. During the past year the hoisting shaft has been relined with 2 in. by 10 in. lagging and 4 in. by 6 in. sets.

Edmonton Standard Coal Company, Limited.

Authorized Capital: \$500,000.00.
President: H. Waddington.
Vice-President: G. E. Ellis.
General Manager: William Munns.
Head Office: Toronto, Ont.
Mine Office: Edmonton.
Mine Manager: F. B. Smith.
Pit Boss: D. Morris.

A large amount of development work has been done at this mine during the past year, and in order to deal with the water in different parts of the mine, collecting pumps have been installed.

The output from this mine is delivered by teams in the City of Edmonton.

The Great West Coal Company, Limited.

Authorized Capital: \$150,000.00.
President: James C. Dunn.
Directors: James C. Dunn, Alex. C. Dunn and W. S. Cupple.
Sec.-Treasurer: W. S. Cupple.
Head Office: Edmonton.
Mine Office: Clover Bar.
General Manager: Alex. C. Dunn.
Mine Manager: Alex. C. Dunn.
Mining Engineer: John Russell.
Master Mechanic: A. Blamonte.
Pit Bosses: P. J. Murphy and T. Strickland.

This company controls 1,138 acres of coal lands, the thickness of the coal varying from 4½ ft. to 7½ ft.

During the past year two and a half miles of track were laid from the main line of the Grand Trunk Pacific Railway, near Clover Bar, to the mine.

Two shafts are sunk on the property to the coal which was reached at a depth of 180 ft. The hoisting shaft is 14 ft. by 9½ ft., and the air shaft is 9 ft. by 6 ft. A tippie has been erected capable of handling 1,000 tons of coal per day and is fitted with rotary dump and two shaker screens. The hoisting engine is 16 in. by 30 in., steam being supplied by two Robb-Mumford boilers and two Waterous boilers of 110 h.p. each. An 18 in. duplex air compressor manufactured by A. T. Green of Rothersham, England, and driven by a 19¼ in. by 36 in. duplex steam engine, has been installed for the purpose of supplying air for coal cutting machines. A Schiele fan capable of producing 250,000 cub. ft. of air per minute when running at 315 revolutions per minute is being installed and will be coupled up to a 16 in. by 24 in. engine by means of a belt. A 37 k.w. generator is also being installed.

This plant was erected in the early part of the past year, but was completely destroyed by fire during the month of May and has just been rebuilt again.

Clover Bar Coal Company, Limited.

Authorized Capital: \$500,000.00.
President: H. E. Rogers.
Vice-President: J. J. Milledge.
Directors: H. E. Rogers, J. J. Milledge and W. H. Robertson.
Secretary: J. F. Hunter.
Treasurer: H. H. Robertson.
Head Office: Edmonton.
Mine Office: Clover Bar.
General Manager: J. F. Hunter.
Mine Manager: David Jones.
Pit Boss: W. Jinks.

This company has 813 acres of coal lands, near Edmonton, and are operating a seam of lignite coal 7 ft. thick. The mine is connected to the main line of the Grand Trunk Pacific Railway by means of a spur track about 3,000 ft. long. The shaft on this property is 85 ft. in depth and is 14 ft. by 7 ft., the hoisting engine being 14 in. by 30 in.

Alberta Coal Mining Company, Limited.

Authorized Capital: \$250,000.00.
 President: James L. Bell.
 Vice-President: W. L. Carter.
 Managing Director: George S. Montgomery.
 Secy.-Treas: George S. Montgomery.
 Directors: James L. Bell, W. L. Carter and George S. Montgomery.
 Head Office: Edmonton.
 Mine Manager: C. C. Richards.
 Pit Boss—Gus Ostheidt.

This company controls an area of 320 acres of coal lands, and are working a seam $7\frac{1}{2}$ ft. in thickness. The plant is connected to the Canadian Northern Railway by means of a spur track.

Several buildings have been erected during the past year and a considerable amount of development work done. The main entry has been driven a distance of 1,600 ft. and is laid with 12 lb. steel rails. The mine cars have a capacity of two tons each.

The Cardiff Collieries, Limited.

Authorized Capital: \$700,000.00.
 President: Lieut.-Col. J. W. del O'Grady.
 Vice-President: Andrew Kelly.
 Managing Director: J. W. del O'Grady.
 Directors: J. W. del O'Grady, Andrew Kelly, D. L. Cameron, W. R. Bell, H. H. Chown, J. C. Gage and W. R. Russell.
 Secretary: W. E. Brown.
 Treasurer: J. C. Gage.
 Head Office: Winnipeg, Man.
 Mine Office: Cardiff.
 General Manager: G. H. Eaton.
 Mine Manager: F. B. Smith.
 Pit Boss: William Gilliland.

The seam of coal being worked on this property is 14 ft. in thickness with about 14 ft. of cover over it. A slope was driven from the surface to the coal and extended up by means of trestle work to the tippie. The tippie is fitted with Jeffrey shaking screens connected to a steam engine by means of a belt. The coal is hauled up the incline to the tippie by means of the creeper rope haul. A box car loader has been installed during the past year.

Battle River Collieries.

President: O. H. Anderson.
 Vice-President: A. S. Rosenroll.
 Mine Office: Rosenroll.
 Pit Boss: T. L. Parsons.

This company controls an area of 3,200 acres of coal lands, and is operating a seam of lignite coal which is 8 ft. in thickness. The plant is connected to the Canadian Pacific Railway by means of a spur track 2,500 feet in length.

Two rectangular shafts have been sunk to the coal which was reached at a depth of 162 ft. The tippie is capable of handling 400 tons per day. All coal is mined by means of four Sullivan compressed air machines, the compressed air being produced for this purpose by a Sullivan air compressor.

The Spicer Coal Company, Limited.

Authorized Capital: \$100,000.00.
 President: John C. Bell.
 Vice-President: Jas. D. McDonald.
 Managing Director: John Spicer.
 Directors: John C. Bell, J. D. McDonald, John Spicer, T. H. McCallum,
 A. M. McIntyre and R. T. Cowan.
 Secretary: T. K. McCallum.
 Treasurer: John Spicer.
 Head Office: Saskatoon, Sask.
 Mine Office: Dinant.
 General Manager: John Spicer.
 Pit Boss: Jesse Horn.

The output from this mine is hauled to the Grand Trunk Pacific Railway by means of teams, as there are no railway facilities. The mine is being operated on a small scale only, but during the present year it is intended to carry on considerable development work.

Security Coal Mines Company, Limited.

Authorized Capital: \$1,000,000.
 President: Sir James Grant.
 Vice-President: William C. Dunn.
 Secretary: Chas. E. Merwin.
 Treasurer: Chas. E. Merwin.
 Directors: Sir James Grant, George G. Armstrong, George Harcourt, Chas.
 E. Merwin and William C. Dunn.
 Head Office: Edmonton.
 Mine Office: Edmonton.

This company controls 880 acres of coal lands. It is proposed in the future to build a spur track from the mine to the Grand Trunk Pacific Railway. The mine so far has only been worked intermittently and on a small scale. At present there is no machinery.

St. Albert Collieries, Limited.

Authorized Capital: \$750,000.00.
 President: E. B. Greenshields.
 Vice-President: H. A. Lovett.
 Secretary: G. F. Gyles.
 General Manager: Charles Fergie.
 Directors: E. B. Greenshields, H. A. Lovett, R. Brutinel, I. W. McConnel,
 Hon. Robert Mackay.
 Head Office: Montreal, Que.
 Mine Office: St. Albert.
 Mine Manager: E. Ashburner.

The property controlled by this company is situated about eight miles north of Edmonton. During the year 1911 two rectangular shafts were sunk to a depth of 84 ft., but had to be abandoned owing to sand and water being encountered. It was then decided to sink a circular shaft lined with concrete, and a contract was let to the Foundation Company of Montreal and New York. This shaft is now down a distance of 205 ft. It was commenced with an inside diameter of 30 ft. with concrete walls 5 ft. thick. A V-shaped cutting-edge was put in and as the concrete was built above it, this edge gradually sank. The first portion of the sinking was successfully carried down through the sand bed to the blue clay which divided this bed into two portions. The shaft was then

sunk in rectangular form and is 13 ft. 8 ins. by 13 ft. 4 ins. The shafts have still about 100 ft. to go to reach the coal.

The plant is connected to the Canadian Northern Railway by means of a spur track.

The Pacific Pass Coal Fields, Limited.

Authorized Capital: \$5,000,000.00.
 President: E. B. Greenshields.
 Vice-President: Hon. Robt. Mackay.
 Managing Director: Charles Fergie.
 Directors: N. Curry, John T. Ross, H. A. Lovett, A. H. Cook, William M. Macpherson, J. G. Scott, Hon. P. A. Choquette, Paul A. Normand and A. de Bernis.
 Sec.-Treasurer: Samuel T. Mains.
 Head Office: Montreal, Que.
 Mine Office: Fergie, via Bickerdike.
 Mine Manager: P. Christianson.
 Mechanical Engineer: A. B. Carr.
 Pit Boss: W. G. Heeley.
 Fire Bosses: Allan Hamilton and Michael Joyce.

This company controls 40,000 acres of coal lands, which contain six workable seams of coal, giving a total thickness of 108 ft. The measures are lying at an inclination of 25 degrees and the strike of the seam is southeast. The mine is connected to the Alberta Coal Branch of the Grand Trunk Pacific Railway by means of a spur track.

A timber trestle has been built connecting the mines on the north and south sides of the river, the coal being brought to one tippie from both mines. The tippie which is fitted with the cross-over dump is capable of handling 1,000 tons per day.

Five boilers of 100 h.p. capacity each are installed, also a Sirocco fan capable of producing 15,000 cub. ft. of air per minute running at a speed of 150 revolutions per minute. Safety lamps of the Wolfe pattern are used throughout this mine. Monobel is used for blasting and all shots are fired by means of electric batteries.

Mountain Park Coal Company, Limited.

Authorized Capital: \$1,500,000.00.
 President: C. J. Heyland.
 Directors: C. J. Heyland, J. C. C. Bremner, L. W. Jones and N. M. Thornton.
 Secretary: F. B. Macmalim.
 Head Office: Edmonton.
 Mine Office: Mountain Park Collieries.
 Engineer: L. E. Drummond.
 Master Mechanic: E. Watson.
 Manager: J. Derbyshire.
 Fire Bosses: James Crowder and Wm. Eccleston.

This company controls 6,000 acres of coal lands, containing 4 seams of good bituminous coal. These seams are 6 ft. 6 ins., 4 ft. 6 ins., 3 ft. and 20 ft. in thickness respectively, and are pitching at an inclination of about 30 degrees. The strike of the seams is N. 70 degrees E.

This plant is being connected to the Alberta coal branch of the Grand Trunk Pacific Railway by means of a spur track, which is being

built from mile 37. Ten miles of this spur have been built and it is expected that it will be completed during the early part of the present year. Three 50 h.p. boilers have been installed, also one 75 k.w. generator. Levels have been driven in Nos. 1, 2 and 3 seams for a distance of about 450 ft., the output at present being put to stock.

Safety lamps are used throughout these mines. Monobel is used for blasting and all shots are fired by means of electric batteries.

McLeod Collieries, Limited.

Authorized Capital: \$100,000.00.
Managing Director: Jas. A. Collins.
Directors: J. A. Collins, John A. Hamilton, George B. Henwood and S. B. Stowe.
Sec.-Treas: S. B. Stowe.
Head Office: Edmonton.
Mine Office: Mile 37, Alberta Coal Branch.
Engineer: Chas. H. Colgrove.
Pit Boss: J. A. Macdonald.

This company controls 2,192 acres of coal lands which contain seams of a bituminous nature varying in thickness from 6 ft. to 30 ft. and pitching at an inclination of about 60 degrees.

A tippie capable of handling 1,000 tons of coal in ten hours has been erected, the coal being hauled to the tippie by means of a slope by tail rope haulage. The seam at present being worked is 12 ft. in thickness.

The Yellowhead Pass Coal and Coke Company, Limited.

Authorized Capital: \$1,000,000.00.
President: M. J. O'Brien.
Vice-President: M. Doherty.
Managing Director: G. H. Richardson.
Secy.-Treas: F. W. Rous.
Head Office: Montreal, Que.
Mine Office: Bickerdike.
General Manager: J. R. Roaf.
Mine Manager: F. B. Smith.
Master Meehanic: H. Ryan.
Pit Boss: Thomas Mather.
Fire Bosses: D. Archibald, D. Ludbrook and J. W. Kerr.

This company controls 8,515 acres of coal lands. The mine is opened out on each side of a creek and a trestle built across connecting the two mines. The tippie is capable of handling an output of about 500 tons per day. Slopes are driven a distance of about 2,000 ft. in the coal on each side of the creek.

Safety lamps of the Wolfe pattern are used throughout the mines, and all shots are fired by means of electric batteries.

North Alberta Coal Syndicate, Limited.

This company controls 5,000 acres of coal lands in Jasper Park, and during the past year have done a considerable amount of prospect work. Four workable seams of a good bituminous coal have been found varying

in thickness from 4 ft. 6 ins. to 14 ft. and pitching at an inclination of 65 degrees.

It is expected that this mine will be connected with the Grand Trunk Pacific Railway during the present year by means of a spur track 5 miles long. Tunnels have been driven in the 14 ft. and 10 ft. seams for a distance of 500 ft. each.

Jasper Park Collieries, Limited.

Authorized Capital: \$2,500,000.00.
President: Andrew Laidlaw.
Vice-President: J. L. Cote.
Managing Director: Andrew Laidlaw.
Directors: Andrew Laidlaw, M. H. Alworth, J. G. Short, H. B. Round, J. L. Cote and R. H. Morris.
Secretary: H. E. Pearson.
Treasurer: R. J. Maxwell.
Head Office: Edmonton.
Mine Office: Pocaehontas.
General Manager: R. H. Morris.
Mine Manager: Edwin Sparrow.
Engineer: G. H. Morse.
Master Mechanic: Mike Saunders.
Pit Boss: Edwin Sparrow.
Fire Bosses: Alex. Scott, A. J. Brown and D. J. Gwilliam.

This company controls 10,240 acres of coal lands, containing three workable seams varying in thickness from 8 ft. to 12 ft. and pitching at an inclination of 56 degrees.

The plant is situated on the main line of the Grand Trunk Pacific Railway in Jasper Park. A tippie capable of handling 1,500 tons per day has been erected during the past year and fitted with cross-over dump and shaker screens. Four 150 h.p. return tubular boilers of the Leonard type have been installed, also generators. A Robb steam engine 11 by 12 is used for driving these generators.

A tunnel 2,200 ft. in length has been driven to connect the workings to the new tippie. This will also be the means of giving a much greater lift of coal. Difficulties were encountered in driving this tunnel, as 400 ft. of it had to be driven through gravel heavily impregnated with water.

A Sheldon fan capable of producing 22,000 cub. ft. of air per minute when running at 200 revolutions per minute, has been installed.

Safety lamps of the Wolfe pattern are used throughout the mine, and all shots are fired by means of electric batteries.

Pembina Coal Company.

Authorized Capital: \$1,500,000.00.
President: H. M. Evans.
General Manager: M. L. Hyde.
Mine Manager: J. E. Roberts.
Master Mechanic: Chas. Brenton.

The holdings of this company are situated west of the Pembina river, 60 miles from Edmonton on the main line of the Grand Trunk Pacific Railway.

Two rectangular shafts 12 ft. by 18 ft. have been sunk in the centre of the property and reach the seam at a depth of 265 ft. The coal seam has a total thickness of 24 ft., of which 8 ft. 6 ins. is being worked. The system adopted consists of four main entries running north and south with cross entries east and west and panel entries taken off these parallel to the mains.

The tippie is electrically driven and lighted and is complete with rock, local coal and boiler coal bins.

The hoisting engine-room consists of a frame building and is equipped with an 18 in. by 36 in. first motion Linchfield hoist with two 6ft. dia. by 28 in. cylindrical drums and overwinding device.

In the engine-room there is a 65 k.w. 250 v.d.c generator driven by a 12 by 12 Ideal engine. A 250 k.w. mixed pressure turbine will be installed in the near future and exhaust steam from the hoist will be carried through a regenerator to the turbine.

The boiler and wash-room are in a combination frame building. Two 150 h.p. tubular boilers, 150 lb. pressure are installed. One 7½ by 4 ½ by 10 Platt duplex feed pump and one Stillwell open feed water heater are also located in the boiler-room. The wash-house is equipped with shower baths and chain hangers for the clothes.

The machine shop and supply house are in one building. The shop tools are electrically driven and consist of a combination saw, pipe and bolt machine, 20 in. drill, grindstone, emery wheel, 100 lb. hammer and hack saw, besides forges, etc.

The coal deposits in the district tributary to the main line of the Grand Trunk Pacific Railway are being opened up and developed by six different companies, namely: Jasper Park Collieries, Limited; North Alberta Coal Syndicate, Yellowhead Pass Coal and Coke Co., Limited; Pacific Pass Coal Fields, Limited; Mountain Park Coal Company, Limited and the Macleod Collieries, Limited. Practically all these mines are now equipped with surface plants capable of handling from 800 to 1,500 tons of coal per day each.

The Alberta coal branch of the Grand Trunk Pacific Railway, which leaves the main line of this railway at Bickerdike, is completed to mile 37, where branch lines are being built from this point in different directions to the mines operated by the Yellowhead Pass Coal and Coke Company, Limited, Pacific Pass Coal Fields, Limited and the Mountain Park Coal Company, Limited.

The Jasper Park Collieries, Limited, is situated 83 miles west of Edson on the main line of the Grand Trunk Pacific Railway, and is being developed on the south side of the railway on an extensive scale. It is the intention of this company to build during the present year a plant on the Canadian Northern Railway on the north side of the river, which will be capable of handling 1,500 tons per day also.

Eight miles east of Jasper Park Collieries, is situated the property operated by the North Alberta Syndicate, Limited. A railway has been surveyed to this plant from Prairie Creek on the Grand Trunk Pacific Railway Company, and will probably be built during the present year.

The property owned by the Pembina Coal Company, Limited, is situated 60 miles west of Edmonton on both the Grand Trunk Pacific Railway and the Canadian Northern Railway, and spur tracks built from each of these railways into the plant.

In the district around Edmonton, a large number of small mines each producing from 10 to 150 tons of coal per day, have been operated and their outputs hauled into the City of Edmonton by teams. These mines are, however, gradually being replaced by mines which are being operated on a larger scale. This is due to the fact that owing to the large amount of railway extension which has been going on the output from these larger mines can now be hauled into the city by railway instead of by teams and thus a cheaper coal can be put on the market.

WORK OF INSPECTION.

The district inspectors have made visits of inspection to the different mines in their respective districts as often as possible and have investigated the causes of all fatal and serious accidents and attended all inquests which have been held, and have also, as far as practicable, had the causes of these accidents removed.

Safety lamps are used in all the mines in the bituminous and anthracite coal fields, and in several of the mines in the lignite coal fields, and only explosives which are on the British Permitted List are allowed to be used in these mines. Loose black powder is used in most of the mines in the lignite fields except where compressed black powder is being used and which is giving very satisfactory results.

All shots are fired by means of electric batteries in the bituminous and anthracite coal fields whether gas has been found or not. Shot-firing has also been still further reduced, with the result that a better marketable coal is now being produced. The change in the method of shot-firing and the reduction in the number of shots fired, has, I believe, played an important part in reducing the number of accidents. Very strict measures are being taken by the inspectors to stop all shooting off the solid.

Telephones are installed in the more important mines in the Crow's Nest Pass district and are proving of great service, both in assisting the management of the mine and in getting assistance should an accident occur.

Application was made during the year by the West Canadian Collieries, Limited, Bellevue, for permission to extract the pillars between chute Nos. 45 and 81, but this has been refused owing to the danger of caving, causing explosions by sparks resulting from falls of roof igniting any gas which might accumulate in that portion of the mine.

With reference to the method of working mentioned in my Annual Report for the year 1911 as having been adopted during that year in the shaft mine operated by the Canadian Coal Consolidated, Limited, near Frank, and which I stated I did not approve of, I have to inform you that this method has been abandoned and the angle system again introduced.

A commencement has now been made to move the Town of Frank from the danger zone to a point about half a mile further west, and it is expected that all buildings will be moved from the old townsite within the next few months.

MINE RESCUE STATIONS.

During March, 1912, a Mine Rescue Station was installed and equipped at Blairmore on the Crow's Nest Pass branch of the Canadian Pacific Railway.

This station, which is temporary, was equipped with the Fleuss type of apparatus, after very careful consideration.

The equipment consists of:

Eleven apparatus of the Proto type.

Six apparatus of the Salvator type.

Two oxygen compression pumps.

Two Draeger pulmotors.

One oxygen reviving apparatus.

One animal tester.

Twelve electric hand lamps.

One rectifier for charging lamps.

One meter for testing reducing valves.

The oxygen compression pumps are used for charging the small cylinders from the storage tanks. There are thirty storage tanks, each having a capacity of 100 cubic feet of oxygen.

The twelve electric hand lamps are each capable of holding a charge sufficient to last seven hours.

The station is also equipped with a large number of spare parts to replace any defective or worn out portions of the apparatus. There are also 3,500 pounds of caustic soda kept in reserve at all times.

Mr. Andrew A. Millar was appointed superintendent of this station, his duties being to instruct and train men how to render efficient aid with the apparatus in case of accidents. The candidates for training are divided into teams of five, the training consisting of a thorough knowledge in the use of the apparatus and its various parts, together with a practical course in vitiated atmosphere. The ordinary course lasts at least six days and in several cases this may be extended if the superintendent is of the opinion that the training has not been sufficient. The training takes place partly in the Blairmore mine of the West Canadian Collieries, Limited, the management of which has kindly placed the use of same at our disposal for this purpose, and partly in the smoke chamber at the Rescue Station. The candidates for training are chosen from the various mines, but before they are allowed to participate they have to undergo a medical examination, which is carried out by the various mine doctors who have kindly volunteered to examine candidates for this purpose. It is pleasing to note that no accidents have yet occurred to any of the wearers of the apparatus.

The schedule of training is as follows:

FIRST DAY—Explanation of apparatus by the superintendent; dismantling and assembling the apparatus (Proto & Salvator) by the

members of the team; the application of the Pulmotor and reviving apparatus; the use of the animal air tester in mines after an explosion or mine fire; description of the electric lamp used in conjunction with the rescue apparatus and the application of the compression pump for recharging the cylinders of apparatus from storage tank.

SECOND DAY—Members of team wear the apparatus for one and a half hours while walking a distance of 3,000 feet and ascending a vertical height of 160 feet, each member sawing four ends of a $2\frac{1}{2}$ in. slab, after which they recharge apparatus.

THIRD DAY—Two hours in smoke chamber in strong sulphur fumes where they are occupied in sawing props, erecting brattice and props and carrying rock, each member making ten trips through tunnel and overcast, the temperature of the room being on different occasions over 100 degrees Fah.

FOURTH DAY—Two hours spent in mine, the distance travelled underground being 6,000 feet, part of which consists of ascending a roadway which is 450 ft. in length and pitching at an inclination of 45 degrees.

FIFTH DAY—The work done on the third day is repeated and the team is also instructed how to apply the Salvator in case of accident. A portion of the time is also spent in wearing the Salvator.

SIXTH DAY—Trip through the mine repeated, the team wearing the apparatus for three hours and the distance underground increased to 7,500 ft.

Training in accordance with the above schedule was commenced on March 18th, 1912. Sixty men have undergone the full course of training since the station was opened and a considerably larger number have put in a few days and then discontinued for various reasons. At times considerable difficulty has been experienced in inducing men to undergo the course of training.

The following list comprises the names of the various persons and the mines at which they were employed, who have undergone the complete first course of training:

McGillivray Creek Coal and Coke Company, Coleman.

T. Horne.	George Kellock.
T. Homer.	Alex. B. Hunter.
Emile LeBlanc.	Peter Allen.
James H. Moore.	A. G. McAuley.
T. Parry	

International Coal and Coke Company, Coleman.

W. A. Davidson.	D. A. Macaulay.
M. Morrison.	I. Thomas.
W. Ashurst.	R. Kerr.
D. Davies.	W. C. Allen.
J. Thompson.	

West Canadian Collieries, Limited (Blairmore).

Raoul Green.	J. K. Miller.
S. Shone.	J. McAndrew.
L. P. Roberts.	A. Burmis.
J. Bilteryst.	O. Morgan.
A. Parker.	R. G. Foot.
W. McVey.	M. G. Neyrinck.
K. G. Campbell.	

West Canadian Collieries, Limited (Bellevue).

A. Halworth.	A. Anderson.
H. Blake.	J. Radford.
D. McKay.	J. McGeough.
J. Cooke.	J. Katka.
E. Bridge.	

Canadian Coal Consolidated, Limited (Frank).

J. Reid.	W. Picton.
J. B. Finlayson.	J. H. Robinson.
F. Raynor.	L. Crockett.
J. Nicol.	J. Patterson.

Hillcrest Collieries, Limited (Hillcrest).

H. Hunter.	D. Briscoe.
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Davenport Coal Company, Limited (Burmis).

L. C. Stevens.	T. J. Garrett.
R. Rawlinson.	J. D. Thomas.
T. Sloan.	H. Gates.
G. Carson.	A. W. Barnes.

Miscellaneous.

Francis Aspinall, Lethbridge.
 Andrew A. Millar, Blairmore.
 Dr. A. H. Baker, Blairmore.

It will be noted from the above table that no men have been trained from the mine operated by the Maple Leaf Coal Company.

During the time this station has been in operation, two calls have been made for the use of the apparatus, in each case for the Pulmotor. One call was made by the management of the Blairmore mine of the West Canadian Collieries, Limited, and one by the management of the Hillcrest Collieries, Limited, Hillcrest.

Unfortunately in both cases efforts to restore consciousness were unsuccessful through no fault of the apparatus, as in each case there was too long a delay in sending in a call to the station, particularly in that of the Hillcrest case. To substantiate this remark it is only necessary to quote the doctor's evidence given at the inquest held on the victim of the Hillcrest accident: "Had the Pulmotor been in use sooner, the man's life would without doubt have been saved."

It is necessary to point out that in order to obtain success with the Pulmotor, it is imperative to send for it with the least possible delay, and that it is entirely erroneous to suppose that it is the last resource and only to be applied when all other methods have failed.

On different occasions the Proto apparatus has been subjected to severe tests. In one case the wearer stood over strong sulphur fumes with a blanket inverted over him in the form of an umbrella, the blanket being so placed as to effectually concentrate the fumes, and although the wearer remained over half an hour under these trying conditions, he experienced no bad effects.

Some of the special features of the apparatus installed are:

1st—No important parts liable to be damaged are carried on the back.

2nd—All the valves are under the control and observation of the wearer, who requires no assistance from the other members of the team.

3rd—A bye-pass or emergency valve is provided.

4th—The pressure gauge is fixed in such a position that it can easily be seen by the wearer of the apparatus.

5th—The safety tubes are fitted so that they are not liable to be damaged or detached by contact with projections in the passages of the mine.

6th—The weight is evenly distributed.

7th—Caustic soda, the absorbent used, can be readily obtained in different forms suitable for the apparatus from various places independent of the manufacturers of the apparatus.

8th—No injector is used, thereby obviating the danger of the existence of gas in the surrounding atmosphere.

A record of the training work is being kept at the Blairmore station, in which is recorded any points considered of importance. The oxygen used by the different men who have been trained shows an average of about 70 atmospheres for two hours, therefore, on this basis the oxygen supply, when at 120 atmospheres, the capacity of the cylinders is capable of lasting three and one-half hours. In many instances various persons have used as low as 40 atmospheres in two hours.

At times considerable difficulty has been experienced by the superintendent in charge in getting together a team to undergo training. The Maple Leaf Coal Company and the Hillcrest Collieries, Limited, have been special offenders in this connection.

The former company have had no men trained yet and the latter company have only had two men trained so far. It is gratifying to note, however, that with these two exceptions the operators in this district have given mine rescue training every possible assistance in their power.

A station known as the Lethbridge Mine Rescue Station No. 1 has been built and equipped at No. 6 mine, near Lethbridge, and is being conducted along the same lines as the Crow's Nest Pass Mine Rescue Station. Mr. Wm. B. Powell was appointed superintendent of this station at its commencement in November.

Negotiations have now been completed with the Canadian Pacific Railway Company for obtaining a railway car which will be moved from mine to mine for training purposes and will be readily available in case of emergency. This car will be fitted up with the most modern apparatus and accessories and will be provided with living quarters for the superintendent in charge. I expect it will be ready for use about February of this year.

A case occurred at Lethbridge in December, 1912, where two men were overcome by gas escaping. The Pulmotor was immediately sent for, and the doctor reports that although one man would have probably recovered without it, it was undoubtedly the means of saving the other man's life.

Before any person is allowed to be trained he must produce the following medical certificate properly filled in to show that he is physically fit to undergo training. It is also necessary for a person being

trained to produce a certificate showing that he has taken a course in First Aid Work, fitting him to give assistance to any person injured in or about a mine.

Three months after a man has completed his first course of training he must present himself for another day's training, after which if he is found to be satisfactory he will be granted a certificate.

QUALIFICATIONS OF RESCUE MEN.

Mining men 22 to 45 years old, in good physical condition, who are temperate in their habits and naturally calm and deliberate, are best suited for mine rescue work.

Before a man undergoes training in the use of breathing apparatus, he must be examined by a physician to ascertain his physical condition, especially the action of his heart and lungs and any defects of the nose or throat. Unless a man has a physician's certificate stating that his physical condition is good, he must not be permitted to take rescue training nor to attempt rescue work in a mine.

PHYSICIAN'S EXAMINATION.

Date..... Hour..... M.
 Name..... Age..... Residence.....
 Occupation..... How long so employed
 Time of last meal..... Previous illness of recent date,
 having regard to rheumatism, fits, spitting of blood, asthma, bronchitis,
 giddiness, vertigo, or any unsteadiness of gait
 Habits as regards smoking and drinking
 General appearance, paying special attention to the breathing passages,
 tonsils and nostrils, also ocular conjunctiva, and any infectious condition

 Urine General shape and expansion of the chest
 (See that clothing is loose)
 Frequency of breathing
 Pulse: frequency and character.....
 Condition of lungs
 Condition of arteries and veins
 Heart action
 Nervous or composed temperament?.....
 The candidate is in condition to undergo mine-rescue
 training.

(Signed)

Physician.

LIST OF PROSECUTIONS UNDER THE COAL MINES ACT.

Mine in which Prosecution Was Instituted	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
West Canadian Collieries, Ltd. (Bellevue)	Miner	General rule 8 (d) section 51. Using an inflammable substance for tampering.	Conviction	\$10.00	\$5.00
West Canadian Collieries, Ltd. (Bellevue)	Miner	General rule 8 (d) section 51. Using an inflammable substance for tampering.	Conviction	\$10.00	\$5.00
Davenport Coal Company. (Burmis)	Tipple Boss	General rule 7 (a) section 51. Having match and pipe on his person in mine.	Conviction	\$10.00	\$3.75

(The above prosecutions were all instituted by the Mine Manager.)

ACCIDENTS.

There were twenty-one fatal accidents during the past year, five of which occurred above ground and sixteen below ground.

The fatal accident which occurred to John Gumbiz in the mine operated by the Diamond Coal Company, Limited, near Diamond City, was caused by the coupling breaking on the first car of a trip which was being hauled up the incline. Gumbiz and another man were riding on this trip when the coupling broke and Gumbiz, failing to get clear of the car, was instantly killed.

The fatal accident which occurred to Herbert F. Price in the mines operated by the Cardiff Collieries, Limited, near Cardiff, was caused by Price being caught between a mine car and the face of a working place. Price was taking a car down a slight inclination when he lost control of it and as he was in front of it, was crushed against the face of the working place by the car and fatally injured.

The fatal accident which occurred to Sam Olatsky in the mines operated by The Canmore Coal Company, Limited, near Canmore, was caused by the deceased apparently striking with his pick an unexploded remnant of Samsonite which had been left from a previous shot.

The fatal accident which occurred to John Vuori in the mine operated by the International Coal and Coke Company, Limited, near Coleman, was caused by a fall of coal at the working face.

The fatal accident which occurred to William T. Baughan in the mine operated by the West Canadian Collieries, Limited, near Bellevue, was caused by a fall of top coal while repairs were being carried on at the outside switch of the main gangway. The fire boss who was in charge at this place had the contract for the work and it would appear from the evidence that a proper examination of the place after the shot had been fired had not been made.

The fatal accident which occurred to Joe Barker in the mine operated by the Department of Natural Resources of the Canadian Pacific Railway near Bankhead was entirely unforeseen, and was caused by a timber rolling off the top of a railway car which was being unloaded. When this timber fell it struck Barker and fractured his skull.

The fatal accident which occurred to Dominick Degano in the mine operated by the McGillivray Creek Coal and Coke Company, Limited, near Coleman, was caused by deceased being crushed between mine cars. It appears that he had been attempting to uncouple a car at the bottom of the incline when the car was allowed to come back, with the result that he was crushed between it and another car.

The fatal accident which occurred to Mike Portskove at the mine operated by the Department of Natural Resources of the Canadian Pacific Railway near Bankhead, was caused by Portskove being buried in the small coal bin. It appears that deceased had gone into this bin for the purpose of cleaning out the remainder of the small coal which was in it when he was buried.

The fatal accident which occurred to Raymond Rockey at the mine operated by the St. Albert Collieries, Limited, near St. Albert, was caused while a cofferdam was being erected. The timbers which were

carrying this cofferdam were too light, the consequence being that they broke, allowing the cofferdam to fall, killing Rockey instantaneously.

The fatal accident which occurred to Martin Targhetta in the mines operated by The Canmore Coal Company, Limited, near Canmore, was another case of an unexploded remnant of Samsonite being struck by a pick, causing it to go off, with the result that Targhetta met his death.

The fatal accident which occurred to Steve Roveluck at the mine operated by the West Canadian Collieries, Limited, near Blairmore, was caused while Roveluck was examining a place to find out how far it had to go before it was driven through into another place. While he was doing this a large amount of coal fell and buried him. Unfortunately the Pulmotor which is kept at the Mine Rescue Station at Blairmore was not used on this man until it was too late to be of any use.

The fatal accident which occurred to Mike Kangas in the mine operated by The Canmore Coal Company, Limited, near Canmore, was caused by Kangas being knocked down a chute by a boulder which fell away from the coal face.

The fatal accident which occurred to Steve Komplin in the mine operated by the Leitch Collieries, Limited, near Passburg, was caused through lack of ventilation in a place which was being driven to connect to another place.

The fatal accident which occurred to Emile Gengembre in the mine operated by the McGillivray Creek Coal and Coke Company, Limited, near Coleman, was caused by a fall of cap rock in one of the rooms.

The fatal accident which occurred to Sam Caravelos in the mine operated by the Canadian Coal Consolidated, Limited, near Frank, was caused by Caravelos going into a place and attempting to brush out an accumulation of gas which was there, with a piece of brattice cloth.

The fatal accident which occurred to Archibald Laidlaw in the mines operated by the Pacific Pass Coal Fields, Limited, near Bickerdike, was caused by a fall of roof. It appears that Laidlaw, together with another man, had been sent to secure a piece of roof coal which showed a slip in it, and while doing so, the roof fell, killing Laidlaw.

The fatal accident which occurred to John Chezik at the mines operated by the Canadian Consolidated, Limited, was caused by Chezik taking hold of an electric wire which had been broken by a wind storm.

The fatal accident which occurred to Leon Seniuk in the No. 6 mine operated by the Department of Natural Resources of the Canadian Pacific Railway, near Lethbridge, was caused in connection with haulage. Seniuk was bringing a number of cars down an incline and failed to put sufficient sprags into the wheels, with the result that the cars ran away and caught him.

The fatal accident which occurred to Sam Wilson in the mine operated by the Hillcrest Collieries, Limited, near Hillcrest, was caused by Wilson going into a place which was fenced off owing to an accumulation of gas being present there. He apparently went into this place with the intention of having the gas removed. This is another case where it is probable that if the Pulmotor had been sent for immediately after the accident had occurred, according to the evidence given by the

doctor at the inquest, this man's life would have been saved. There appears to be no reason why the Pulmotor should not have been sent for.

The fatal accident which occurred to John Loftus in the mine operated by the Canada West Coal Company, near Taber, was caused by a fall of roof while deceased was mining the coal.

The fatal accident which occurred to Joe Bojdys in the mine operated by the Department of Natural Resources of the Canadian Pacific Railway near Bankhead, was caused by a timber being knocked out by a car which had become derailed. It appears that deceased was operating a compressed air locomotive at the time, when one of the cars became derailed, with the result that he was killed instantaneously.

There have also been thirty-three serious accidents below ground and five above ground, and fifty-two slight accidents below ground and six above ground.

The following table gives the number of tons mined per accident in the province from the years 1906 to 1912, inclusive:

SUMMARY TABLE SHOWING ACCIDENTS OCCURRING IN MINES DURING YEARS 1906 TO 1912 INCLUSIVE.

YEAR	OUTPUT	ACCIDENTS			TONS OF COAL MINED PER ACCIDENT		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906	1,385,000	10	11	20	138,500	125,909	69,250
1907	1,834,745	19	18	68	96,565	101,930	26,981
1908	1,845,000	11	38	13	167,727	48,552	141,923
1909	2,174,329	9	42	18	241,592	51,769	120,796
1910	3,036,757	61*	41	58	49,782*	71,067	52,357
1911	1,694,564	7	32	45	242,080	52,955	37,656
1912	3,446,349	21	38	58	164,111	90,693	59,419

* Including thirty-one deaths caused by Bellevue explosion.

TABLE SHOWING ACCIDENTS DURING 1912 CLASSIFIED ACCORDING TO DISTRICTS.

DISTRICT	OUTPUT	ACCIDENTS			TONS OF COAL MINED PER ACCIDENT		
		Fatal	Seri's	Slight	Fatal	Serious	Slight
Crow's Nest Pass	1,524,816	9	17	24	169,424	89,695	63,534
Lethbridge	760,687	3	13	13	253,562	58,514	58,514
Edmonton	633,883	3	4	9	211,294	158,470	70,431
Calgary	526,963	6	4	12	87,827	131,740	43,913

TABULATED LIST OF ACCIDENTS OCCURRING IN THE PROVINCE ABOVE
AND BELOW GROUND DURING THE YEAR 1912.

CAUSE	FATAL		SERIOUS		SLIGHT		TOTAL	
	Above	Below	Above	Below	Above	Below	Above	Below
Falls of coal .....	..	4	..	6	..	4	..	14
Falls of roof .....	..	3	..	8	..	6	..	17
Falling down chute .....	..	..	..	..	..	2	..	2
Haulage	1	4	..	14	2	16	3	34
Gas Explosions .....	..	..	..	..	..	3	..	3
Explosives .....	..	2	..	1	..	11	..	14
Coal-cutting machinery .....	..	..	..	..	..	1	..	1
Asphyxiation .....	..	3	..	..	..	..	..	3
Electrocution	1	..	..	..	..	..	1	..
Miscellaneous	3	..	5	4	4	9	12	13
Total	5	16	5	33	6	52	16	101

The following tables give the classification of accidents according to the district in which they occurred:

CROW'S NEST PASS.

CAUSE	FATAL		SERIOUS		SLIGHT	
	Above	Below	Above	Below	Above	Below
Falls of coal	3	..	5	..	3
Falls of roof	1	..	4	..	3
Falling down chute	2
Haulage	1	..	5	1	7
Explosives	3
Asphyxiation	3	..	..	..	..
Explosion of gas	1
Electrocution	1	..	..	..	..	..
Miscellaneous	1	2	1	3
Total	1	8	1	16	2	22

LETHBRIDGE.

CAUSE	FATAL		SERIOUS		SLIGHT	
	Above	Below	Above	Below	Above	Below
Falls of roof .....	..	1	..	3	..	2
Haulage	1	1	..	7	..	4
Explosives .....	..	..	..	..	..	2
Explosion of gas .....	..	..	..	..	..	2
Miscellaneous .....	..	..	2	1	..	3
Total	1	2	2	11	..	13

EDMONTON.

CAUSE	FATAL		SERIOUS		SLIGHT	
	Above	Below	Above	Below	Above	Below
Falls of coal .....	..	1	..	1	..	1
Haulage .....	..	1	..	2	..	2
Explosives .....	..	..	..	..	..	2
Coal-cutting machinery .....	..	..	..	..	..	1
Miscellaneous	1	..	1	..	1	2
Total	1	2	1	3	1	8

CALGARY.

CAUSE	FATAL		SERIOUS		SLIGHT	
	Above	Below	Above	Below	Above	Below
Falls of roof .....	..	1	..	1	..	1
Haulage .....	..	1	..	..	1	3
Explosives .....	..	2	..	1	..	4
Miscellaneous	2	..	1	1	2	1
Total	2	4	1	3	3	9

ACCIDENTS FROM EXPLOSIONS OF FIRE-DAMP OR COAL-DUST CLASSIFIED
ACCORDING TO CAUSE.

CAUSE OF EXPLOSION	Fatal Accidents		Non-Fatal Accidents Reported to Inspector	
	Number of separate accidents	Number of deaths	Number of separate accidents	Number of persons injured
Naked lights	1	1
Safety lamps	2	2

ACCIDENTS WITH EXPLOSIVES, CLASSIFIED ACCORDING TO THE NATURE
OF THE EXPLOSIVE.

NAME OF EXPLOSIVE	Fatal Accidents		Non-Fatal Accidents Reported to Inspector	
	Number of separate accidents	Number of deaths	Number of separate accidents	Number of persons injured
Black powder .....	..	..	5	5
Dynamite .....	..	..	1	1
Samsonite	2	2	2	3
Monobel .....	..	..	3	3
Total	2	2	11	12

ACCIDENTS WITH EXPLOSIVES CLASSIFIED ACCORDING TO THEIR CHARACTER OR CAUSE.

CHARACTER OR CAUSE	Fatal Accidents		Non-Fatal Accidents Reported to Inspectors	
	Number of separate accidents	Number of deaths	Number of separate accidents	Number of persons injured
Loose powder ignited by lamp....	..	..	2	2
Struck by coal from shot .....	..	..	4	4
While working near an unexploded remnant left by incomplete de- tonation of the charge.....	2	2	2	3
Premature ignition .....	..	..	3	3
Total	2	2	11	12

HAULAGE ACCIDENTS.

NATURE OF ACCIDENT	Fatal Accidents		Non-Fatal Accidents Reported to Inspectors	
	Number of separate accidents	Number of deaths	Number of separate accidents	Number of persons injured
While engaged on haulage opera- tions	4	4	25	25
While going to or from work.....	1	1	4	4
Miscellaneous .....	..	..	4	4
Total	5	5	33	33

ACCIDENTS CAUSED BY PERSONS BEING RUN OVER OR CRUSHED BY CARS.

NATURE OF ACCIDENT	Fatal Accidents		Non-Fatal Accidents Reported to Inspectors	
	Number of separate accidents	Number of deaths	Number of separate accidents	Number of persons injured
Tail rope haulage	2	2	4	4
Endless rope haulage	1	1	6	6
Compressed air locomotives	1	1	10	10
Horse .....	..	..	9	9
Hand	1	1	4	4
Total	5	5	33	33

The following is the list of the accidents which have occurred in the province during the year 1912:

DATE	MINE	NAME	AGE	OCCUPATION	REMARKS
Jan. 2	International Coal & Coke Co. Ltd.	J. Kilgannon	34	Miner	Fall of coal and top rock. Right arm crushed.
Jan. 3	Alberta Railway and Irrigation Co.	James Milling	17	Driver	Fell in front of mine car. Left leg fractured.
Jan. 3	Calgary Collieries, Ltd.	William Jones	29	Miner	Premature explosion of dynamite. Face cut and bruised.
Jan. 3	McGillivray Creek Coal & Coke Co.	Gordon Relley	22	Driver	Caught between empty car and chute. Bruised back.
Jan. 4	Jasper Park Collieries, Ltd.	John Krosney	35	Miner	Injured by coal falling down chute. Legs bruised
Jan. 6	Royal Collieries, Ltd.	L. Bolero	33	Miner	Fall of rock. Back injured.
Jan. 13	Diamond Coal Co., Ltd.	John Gumbiz	23	Timberman's helper	Riding on car up incline when swivel broke. Fatal.
Jan. 16	International Coal & Coke Co. Ltd.	Robert Morgan	34	Miner	Fall of roof at working face. Right leg fractured.
Jan. 16	The Cardiff Collieries, Ltd.	J. McGregor	21	Driver	Jumping off mine car. Right ankle bruised.
Jan. 16	Royal Collieries, Ltd.	C. Rosa	22	Miner	Caught between mine cars and timbers. Left leg bruised.
Jan. 17	Western Coal & Coke Co.	Carl Smith	23	Rope rider	Caught between mine car and timbers. Left leg bruised
Jan. 18	The Cardiff Collieries, Ltd.	Bert Reid	26	Haulage Attendant	Caught between car and timber. Collar bone broken.
Jan. 18	International Coal & Coke Co. Ltd.	Martin Setla	21	Chute loader	Struck by chute while riding on empty car. Left ankle injured.
Jan. 19	Alberta Railway & Irrigation Co.	Bill Ponich	28	Driver	Caught by mine car. Compound fracture of right leg.
Jan. 23	Round Hill Collieries, Ltd.	Thomas Englebreton	25	Miner	Caught by runaway mine car on slope. Compound fracture of leg.
Jan. 24	Royal Collieries, Ltd.	Thomas Longworth	29	Miner	Struck foot with coal pick. Foot bruised.
Jan. 27	Royal Collieries, Ltd.	A. Holoburd	23	Miner	Injured by fall of rock. Head and hands cut.

DATE	MINE	NAME	AGE	OCCUPATION	REMARKS
Jan. 31	Jasper Park Collieries, Ltd.	Campbell McPherson..	28	Miner	Fall of coal at working face. Leg fractured.
Jan. 31	Cardiff Collieries, Ltd.	Herbert Price	24	Miner	Caught by mine car and crushed against coal face. Fatal.
Feb. 6	West Canadian Collieries, Ltd. (Blairmore).	William Slack	52	Miner	Fall of rock at coal face. Body slightly bruised.
Feb. 7	Hillcrest Collieries, Ltd.	Dominick Marshall	24	Tracklayer	Caught between chute and car while riding on car. Bruised about pelvis.
Feb. 7	Lethbridge Collieries, Ltd.	Arthur Gore	21	Laborer	Caught between mine cars. Arm fractured.
Feb. 16	The Canadian Coal Consolidated Ltd.	John Ostapozak	35	Car-pusher	Caught between two cars. Leg injured.
Feb. 17	Diamond Coal Co. Ltd.	Vittorio Bignotti	25	Loader	Eye struck by small piece of coal while shearing. Left eye injured.
Feb. 19	West Canadian Collieries, Ltd., (Lille)	G. Lescuti	24	Miner	Struck by piece of rock from shot. Chest injured.
Feb. 24	West Canadian Collieries, Ltd. (Bellevue)	Amour Mission	30	Miner	Falling down chute. Right ankle crushed and chest bruised.
Feb. 24	International Coal & Coke Co., Ltd.	Thomas Smith	34	Miner	Fall of rock at face. Compound fracture of bone of left foot.
Feb. 27	Western Coal & Coke Co.	Walter Smith	25	Rope rider	Crushed between car and side of roadway. Fingers crushed.
Mar. 4	Bankhead Mines, Ltd	Pete Balla	31	Miner	Caught between car and door frame. Hips squeezed and bruised.
Mar. 6	International Coal & Coke Co., Ltd.	M. Lajka	22	Chute loader	Car door fell on him while he was lifting derailed car. Left wrist broken.
Mar. 11	Royal Collieries, Ltd.	Charles Smith	45	Shift boss	Struck by haulage rope Leg fractured.
Mar. 15	The Canmore Coal Company, Ltd.	Paul Stansel	30	Miner	Slide of rock in gob. Left leg fractured, right hand lacerated.
Mar. 16	West Canadian Collieries, Ltd. (Bellevue)	Saturnin Naroye	44	Miner	Fall of coal at face. Scalp wound, arm fractured and body bruised.

DATE	MINE	NAME	AGE	OCCUPATION	REMARKS
Mar. 20	The Canmore Coal Co., Ltd.	Sam O'akszy	19	Laborer	Premature explosion of unexploded portion of Samsonite powder. Fatal.
Mar. 20	The Canmore Coal Co., Ltd.	Emmanuel Maneglia ..	28	Laborer	Premature explosion of unexploded portion of Samsonite powder.
Mar. 20	The Canmore Coal Co., Ltd.	Tony Casali	38	Rock-miner	Several small cuts on back.
Mar. 28	International Coal & Coke Co., Ltd.	John Vuori	39	Miner	Several small cuts about head and face.
Apr. 4	West Canadian Collieries, Ltd. (Bellevue) ..	Sam Ranino	26	Timber packer ..	Fall of coal from roof. Back injured. Caught between mine cars. Leg bruised.
Apr. 9	Lethbridge Collieries, Ltd.	John Brauer	27	Machine runner ..	Lifting derailed machine. Back sprained.
Apr. 9	Lethbridge Collieries, Ltd.	John Soukut	28	Driver	Caught by mine car. Thigh bruised.
Apr. 12	Lethbridge Collieries, Ltd.	John Makerinko	21	Driver	Fell from moving mine car. Superficial scalp wounds.
Apr. 13	West Canadian Collieries, Ltd., (Bellevue) ..	Wm. A. Baughan	28	Mine laborer	Fall of coal while repairing main gangway. Fatal.
Apr. 14	Yellowhead Pass Coal & Coke Co., Ltd.	A. Irstansky	25	Track layer	Fell in front of mine car. Compound fracture of right leg.
Apr. 17	The Canadian Coal Consolidated, Ltd.	Gideon Derume	36	Shop master	Overbalanced himself while working on tippie. Leg fractured.
Apr. 19	West Canadian Collieries, Ltd. (Lille)	M. Comparino	33	Miner	Fall of coal while undercutting. Nose cut.
Apr. 24	International Coal & Coke Co., Ltd.	P. Clement	36	Miner	Fall of coal and rock. Sprained back and ribs.
Apr. 29	R. W. K. Cousins	Arthur Lewis	26	Miner	Piece of flying coal. Loss of eye.
Apr. 29	Bankhead Mines, Ltd.	Jos. Barker	47	Outside foreman ..	Timber fell from railway car. Fractured skull. Fatal.
Apr. 30	McGillivray Creek Coal & Coke Co., Ltd.	Edward Barnes	34	Miner	Fall of rock from roof. Back injured, right ankle sprained.
May 3	Natural Resources Department (C.P.R. Bankhead)	Mike Domolewick	20	Coupler	Caught between bumpers of mine cars. Foot crushed.
May 8	West Canadian Collieries, Ltd. (Bellevue) ..	F. Bonacci	26	Miner	Fell off set of timber. Leg cut.

DATE	MINE	NAME	AGE	OCCUPATION	REMARKS
May 10	Lethbridge Collieries, Ltd.	Joe Popolvier	26	Driver	Caught by bumper of mine car. Right foot lacerated.
May 10	Natural Resources Department. (C.P.R. Lethbridge)	John Rohvei	44	Machine runner	Ignition of gas. Slightly burned on face and hands.
May 11	Natural Resources Department. (C.P.R. Lethbridge)	Steve Takacs	29	Coal loader	Premature ignition of black powder. Burned on face and hands.
May 17	The Cardiff Collieries, Ltd.	R Bernas	21	Loader	Foot struck with pick. Right foot cut.
May 18	McGillivray Creek Coal & Coke Co., Ltd.	Dominick Degano	31	Track layer	Crushed between two loaded cars. Fatal.
May 23	Natural Resources Department. (C.P.R. Bankhead)	Joe Sippett	22	Loader	Caught between mine cars. Finger crushed.
June 3	West Canadian Collieries, Ltd. (Belevue)	Amour Mission	30	Miner	Roof fell while setting post. Dislocation of left shoulder. Wound over eye.
June 4	Alberta Coal Mining Co., Ltd.	Caesar Bruno	35	Miner	Premature ignition of black powder. Shock from explosion.
June 8	West Canadian Collieries, Ltd. (Bellevue)	Albert Telepatti	30	Miner	Fall of coal while mining. Lacerated wound over right eye and apparent fracture of the base of skull.
June 8	West Canadian Collieries, Ltd. (Blairmore)	John Gates	27	Miner	Fall of roof while erecting timber. Internal injuries.
June 17	Natural Resources Department. (C.P.R. Lethbridge)	Mike Chychot	22	Section man	Swinging chain of steam shovel broke, left thigh crushed.
June 18	West Canadian Collieries, Ltd. (Blairmore)	Alfred Sonnier	32	Timber packer	Caught by nail while packing timber. Right arm injured.
June 28	Natural Resources Department. (C.P.R. Bankhead)	Mike Portskool	64	Surface laborer	Buried by slack in bin. Fatal.
July 9	Hillcrest Collieries Ltd.	Elias Letherland	30	Miner	Struck by flying coal from shot. Small flesh wound.
July 11	St. Albert Collieries Ltd.	Raymond Rockey	23	General laborer	Caught between cofferdam and platform. Fatal.
July 13	Hillcrest Collieries, Ltd.	Steve Belibotsky	32	Miner	Platform on which he was working gave away. Fractured knee.
July 17	West Canadian Collieries, Ltd. (Bellevue)	Barney Iorio	31	Miner	Struck by lever of drilling machine. Right eye injured.

DATE	MINE	NAME	AGE	OCCUPATION	REMARKS
July	19 Royal Collieries, Ltd.	William Fiechuck	29	Miner	Struck on eye by tamping bar. Eye injured.
Aug.	1 West Canadian Collieries, Ltd. (Bellevue)	C. Ollst	22	Motorman	Injured by motor running into mine car. Arm fractured.
Aug.	6 Natural Resources Department. (C.P.R. Bankhead)	R. A. Raffaele	29	Miner	Fall of rock. Hips squeezed.
Aug.	7 Chinook Coal Co. Ltd.	Alexander Maluku	23	Loader	Fall of rock. Fractured leg.
Aug.	8 McGillivray Creek Coal & Coke Co.	Naukine Salvatore	20	Pit headman	Struck against mine car. Forehead cut.
Aug.	10 International Coal & Coke Co., Ltd.	V. Stalmans	16	Door boy	Riding in front of locomotive. In attempting to jump off, left ankle dislocated.
Aug.	12 The Canmore Coal Co. Ltd.	John Gaido	24	Helper	Struck unexploded remnant of powder. Hands and head injured.
Aug.	12 The Canmore Coal Co. Ltd.	Martin Targhetta	39	Miner	Struck unexploded remnant of powder. Fatal.
Aug.	16 Natural Resources Department. C.P.R. No. 3 Mine, Lethbridge)	Mirio Benedetti	35	Loader	Fall of roof. Left leg fractured.
Aug.	20 Natural Resources Department. (C.P.R. Bankhead)	Goi Gioia	25	Laborer	Fell over timber. Nose fractured.
Aug.	21 Natural Resources Department. (C.P.R. Bankhead)	John Hurvek	23	Fitter	Burned by pitch. Hands and face burned.
Aug.	21 West Canadian Collieries, Ltd. (Blairmore)	Steve Roveluck	31	Bratticeman	Fall of coal at face. Fatal.
Aug.	21 Mitford (Calgary) Collieries, Ltd.	William Pearson	52	Engineer	Fell while walking down slope. Fractured ribs.
Aug.	26 Natural Resources Department. (C.P.R. No. 6 shaft, Lethbridge)	Andy Mihaluk	22	Driver	Caught by mine cars. Left leg fractured.
Sept.	9 The Canmore Coal Co. Ltd.	Mike Kangas	23	Miner	Knocked down chute by stone boulder at coal face. Fatal.
Sept.	9 Jasper Park Collieries, Ltd.	John James	26	Miner	Fall of coal from Pillar. Head and ribs bruised.
Sept.	10 Hillcrest Collieries, Ltd.	Franke Rose	29	Bratticeman	Fall of cap rock. Internal injuries.
Sept.	10 Hillcrest Collieries, Ltd.	George Johnston	24	Bratticeman helper	Fall of cap rock. Hip injured.

DATE	MINE	NAME	AGE	OCCUPATION	REMARKS
Sept. 16	The Leitch Collieries, Ltd.	Steve Komplin	27	Miner	Asphyxiated, through lack of ventilation. Fatal.
Sept. 17	McGillivray Creek Coal & Coke Co., Ltd.	Emile Gengembre	42	Miner	Fall of cap rock. Fatal.
Sept. 19	Natural Resources Department. (C.P.R. No. 6, Lethbridge)	T. Stephenson	28	Loader	Ignition of gas. Arms and neck burned.
Sept. 23	Natural Resources Department. (C.P.R. Bankhead)	Joseph Starr	29	Engineer	Bursting of guage glass on boiler. Eye injured.
Sept. 23	West Canadian Collieries, Ltd. (Blairmore)	John Robbir	34	Miner	Premature explosion of Monobel. Eyes slightly injured.
Sept. 24	The Cardiff Collieries, Ltd.	Tom Fray	20	Driver	Fell in front of mine cars. Right arm and back bruised.
Sept. 28	Natural Resources Department. (C.P.R. No. 6, Lethbridge)	Walter Emsley	35	Teamster	While driving wagon about one mile from mine, wagon overturned. Right leg fractured.
Oct. 2	The Canadian Coal Consolidated, Ltd.	Sam Caravelos	34	Miner	Asphyxiated by gas. Fatal. While attempting to brush out gas with brattice cloth.
Oct. 3	Royal Collieries, Ltd.	J. Basso	35	Miner	Burned by shot which he thought had miss-fired. Face injured.
Oct. 5	Canadian Coal Consolidated, Ltd.	Angelo Cervo	30	Timberman	Fell off plank laid across angle. Fractured rib.
Oct. 8	West Canadian Collieries, Ltd. (Blairmore)	Marchal Gaul	38	Miner	Fell into chute. Ribs fractured.
Oct. 8	McGillivray Creek Coal & Coke Co., Ltd.	E. Curridore	24	Laborer	Accidental release of ratchet windlass on tippie chute. Arm fractured.
Oct. 23	West Canadian Collieries, Ltd.	E. Wilan	26	Miner	Caught between mine cars. Chest and back injured.
Oct. 24	Western Coal & Coke Co.	David Muir	30	Fire boss	Ignition of gas. Right hand injured.
Oct. 31	Natural Resources Department. (C.P.R. No. 3, Lethbridge)	Frank Negedly	19	Driver	Fell in front of loaded mine car. Left arm and shoulder injured.
Nov. 1	Natural Resources Department. (Bankhead)	T. Strogny	35	Timber packer	Piece of timber fell down manway. Leg fractured.

DATE	MINE	NAME	AGE	OCCUPATION	REMARKS
Nov. 6	The Pacific Pass Coal Fields, Ltd.	Archibald Laidlaw	42	Miner	Fall of coal. Fatal.
Nov. 6	Natural Resources Department. (C.P.R. No. 6, Lethbridge)	Leon Seniuk	28	Gripper	Caught by cars runing down grade. Fatal.
Nov. 18	West Canadian Collieries, Ltd. (Bellevue) ...	S. Vandriesche	36	Timber packer ...	Fall of coal. Arm fractured.
Nov. 28	International Coal & Coke Co., Ltd.	C. Poluk	19	Chute loader	Caught between mine cars. Left thumb crushed.
Nov. 9	Canadian Coal Consolidated, Ltd.	John Chezik	36	Lampman	Electrocuted by wire blown down during storm. Fatal.
Nov. 30	Hillcrest Collieries, Ltd.	Samuel Wilson	46	Bratticeman	Suffocated by gas. Fatal.
Dec. 6	The Canada West Coal Co., Ltd.	John Loftus	42	Miner	Fall of roof. Fatal.
Dec. 9	The Cardiff Collieries, Ltd.	Henry Pomerleau	18	Laborer	Struck by broken chain on chain block. Right leg fractured.
Dec. 9	The Cardiff Collieries, Ltd.	Joseph Paul	22	Laborer	Struck by broken chain on chain block. Left foot injured.
Dec. 23	The Cardiff Collieries, Ltd.	Mike Remmeggo	20	Miner	Ignition of black powder by open light. Face and hands injured.
Dec. 24	International Coal & Coke Co., Ltd.	M. Brennan	40	Miner	Piece of rock fell knocking out prop. Right shoulder dislocated.
Dec. 26	Natural Resources Department. (Bankhead)	Joe Bojdys	20	Motorman	While pushing a trip of cars, one car jumped off track and knocked out timber. Fatal.
Dec. 26	Natural Resources Department. (Bankhead)	Joe Sikora	20	Switchman	While pushing trip of cars, one car jumped off track and knocked out timber. Head injured.
Dec. 31	Natural Resources Department. (C.P.R. No. 6, Lethbridge)	Archie E. Tennant	17	Trapper	Caught by mine car. Right foot crushed.
Dec. 31	Natural Resources Department. (C.P.R. No. 6, Lethbridge)	Andrew Evans	25	Driver	Crushed against side of road by horse. Collar bone fractured.

EXAMINATIONS.

An examination for fire boss certificates was held at Frank on May 29th and 30th, at which 31 candidates presented themselves for examination, 18 of whom were successful. The regular examinations for mine managers, pit bosses and fire bosses, were held at Frank, Banff and Edmonton on September 11th, 12th, 13th and 14th. At the latter examinations, 108 candidates presented themselves for examination, 62 of whom passed, as follows: Managers, 28 sat for examination, 10 passed; pit bosses, 44 sat for examination, 28 passed; fire bosses, 36 sat for examination and 24 passed.

During the past year 121 pit boss provisional certificates and six fire boss provisional certificates were issued to different persons until they had an opportunity of obtaining certificates by examination.

The following are the questions set at the examinations held at Frank, Banff and Edmonton on September 11th, 12th, 13th and 14th, 1912:

MINE MANAGERS' EXAMINATION.

Paper No. 1.

Time—One and a half hours.

Candidates must obtain 70 per cent. of the allotted marks to pass.

COAL MINES ACT.

1. What are the provisions of The Coal Mines Act regarding—
 - (a) The plans of working mines?
 - (b) The plans of abandoned mines?
2. State the provisions of The Coal Mines Act regarding ventilation, and state what factors would influence your decision as to the adequacy of ventilation in a mine. (8)
3. A mine is being worked by naked lights, but it is found necessary to adopt the use of locked safety lamps. What changes will require to be made in the working of the mine? (8)
4. What report books, or other books of record are required by The Coal Mines Act and "Eight Hour Law" to be kept at a mine? Explain clearly the purpose for which each is used and what entries should be made in each. (12)
5. What briefly are the provisions of The Coal Mines Act with regard to checkweighmen? What are the duties of checkweighmen? (10)
6. What are the provisions of The Coal Mines Act bearing upon the following subjects:
 - (a) Fencing machinery?
 - (b) Safety valves and gauges for steam boilers?
 - (c) Cover overhead?
 - (d) Chains? (14)
7. State shortly the provisions of The Coal Mines Act as to shafts or outlets. (7)
8. What are a mine manager's duties in the event of a serious or fatal accident occurring in or about a mine? (14)

9. State shortly the requirements of The Coal Mines Act as to—
- (a) Approaching old workings;
 - (b) Examination and use of safety lamps;
 - (c) The use and handling of explosives in or about a mine.

(18)

MINE MANAGERS' EXAMINATION.

Paper No. 2.

Time—Two and a half hours.

Candidates must obtain 70 per cent. of the allotted marks to pass.

GASES, SHOT-FIRING AND SAFETY LAMPS,

1. During an inspection of a longwall district, in which black powder is used as the blasting material, you find a small fire-damp cap in the return air leaving the last face. You also observe that the face is naturally wet but the haulage load is dry and dusty. What further observations would you make, and what action, if any, would you take? (8)

2. Whilst examining for gas near the roof your safety-lamp is extinguished without giving any of the characteristic indications of fire-damp, what inference would you draw, and what would be an approximate composition of the gas? (7)

3. Describe the type of safety-lamp you are familiar with and explain fully the principal features upon which the safety of the lamp depends. Describe fully the arrangements you would make on the surface and underground to safeguard the mine from any accident likely to be caused through the use of safety-lamps. (10)

4. What is the meaning of the expression "spontaneous combustion"? Enumerate the gases given off from an underground fire, and discuss the one you consider most dangerous. Describe the effect upon a man breathing a diluted mixture of this gas and air, and explain how you would proceed to detect small quantities of the same. (9)

5. A stone drift 500 yards long has to be driven rising 1 in 8. The strata are ordinary coal measures strata and rise 1 in 10 in the direction in which the drift is going. Fire-damp is given off in places, and some of the ground is rather weak. No water is given off. Describe clearly what precautions should be taken for the safety and efficiency of the work, quoting any General Rules which refer to the subject. (7)

6. Describe briefly the method of firing shots in mines by means of fuse, squibs and electricity respectively, and discuss their comparative merits in respect to safety. (10)

7. What is the formula for calculating the percentage of gas from the height of flame cap observed? What percentage of gas is indicated by a three-quarter inch cap? Describe the expansive properties of fire-damp when mixed with air and when ignition takes place. (9)

8. Explain fully the real dangers connected with—

- (a) The use of monobel in conjunction with black powder;
- (b) Using fine and coarse powder mixed;
- (c) Tamping shots with coal-dust.

(8)

9. (a) What is meant by the "Relative Weight" of the different gases?
- (b) Give the relative weights of the different gases found in coal mines. (6)
10. (a) What effect does coal dust have on an explosion of fire-damp?
- (b) What effect does white-damp have?
- (c) What effect does black-damp have?
11. What is the composition of—
 - (a) Black powder?
 - (b) Monobel?
 - (c) What gases are generated by each when exploded?
 - (d) What is the composition of fuse, and what gases does it generate in burning? (9)
12. In what part of a mine is coal dust most likely to be found? What precautions should you take on an engine plane with an accumulation of coaldust where there was a fairly strong current and cars moving rapidly, and under what conditions should you allow blasting and what explosive should you use? (8)

MINE MANAGERS' EXAMINATION.

Paper No. 3.

Time—Three and a half hours.

Candidates must obtain 70 per cent. of the allotted marks to pass.

VENTILATION.

1. What would be the height of motive column for upcast and for down-cast air respectively, when the depth of each shaft is 300 feet and the temperature of the downcast shaft is 32 degrees F. and that of the upcast 48 degrees F. ?
2. If 10 horsepower is producing a circulation of 60,000 cubic feet of air per minute in a mine—
 - (a) What is the water gauge?
 - (b) What quantity of air and what water gauge will be produced in this mine when the horsepower is increased to 25 ? (10)
3. What is meant by the term "coefficient of friction" as used in connection with mine ventilation? Give an example showing how such coefficient is used. (7)
4. What should happen to the fan if the doors at the top of the upcast were suddenly opened? Would the fan stop, slow down or increase its speed? Give reasons. (5)
5. Two shafts 110 feet apart are to be sunk to a depth of 460 feet. Describe fully the plant and arrangements you would adopt for their ventilation while sinking. (9)
6. The return air of a mine shows by analysis $1\frac{3}{4}$ per cent. of fire-damp. The volume of air passing is 100,000 cubic feet per minute and the water gauge in the fan drift is $2\frac{1}{2}$ inches. Find—
 - (a) The volume of air required to reduce the quantity of fire-damp to 1 per cent.;
 - (b) The additional horsepower required from the fan to circulate the increased volume. (8)

7. If one ventilating fan is producing a current of 25,000 cubic feet of air per minute in a mine, what total quantity of air can be produced by the addition of another fan of the same dimensions and operated with equal power? (9)

8. Show how you would ventilate the workings on the accompanying plan having due regard to haulage, coal being wound at the downcast shaft only. Show by arrows the direction of the air currents, putting in the necessary stoppings, doors, brattices and lamp stations. (12)

9. Describe generally what you would consider a model ventilating plant for a mine employing 500 men underground on one shift, and sketch and describe the construction and action of the fan you would adopt. (10)

10. Describe fully the Fleuss Rescue Apparatus and illustrate your description with sketches. Discuss its value with reference to—

- (a) Saving life after an explosion in a mine; and
- (b) Fighting a mine fire on the main haulage road of a flat seam. (12)

1. (a) Describe the difference between the exhaust and forcing fan system of ventilation.
- (b) Which is to be preferred under certain conditions for the ventilation of coal mines?
- (c) Is the resistance any greater to be overcome in the use of the exhausting or forcing fan?
- (d) In increasing the velocity of the air current, or lengthening the distance the air has to travel through a mine, is the resistance increased; if so, why? (10)

MINE MANAGERS' EXAMINATION.

Paper No. 4.

Time—Three and a half hours.

Candidates must obtain 60 per cent. of the allotted marks to pass.

PRACTICAL WORK.

1. In a seam 9 feet thick having an inclination of 35 degrees, a section of pillars 1,500 feet on the level and 800 feet to the rise, has been left, the pillars being 40 feet on the level by 70 feet to the rise. The room consists of soft shale 9 feet thick, fiery, and gas lodges freely in the rooms. Sketch and describe how you would take out the pillars. (10)

2. Describe the general structures of a coal field in Alberta with which you are familiar and state the possibilities of future extensions, if any, with the difficulties likely to be encountered in the future working of such extensions. (10)

3. What is meant by the terms "Igneous" and "Aqueous" rocks and "Intrusive dyke"? (9)

4. Give a description of the machinery and all appliances necessary in sinking two shafts to a depth of 550 feet in moderately hard strata. When would you stop sinking to put in walling? What would guide you on this point? One of the shafts is to be used as an upcast and

the other as a downcast. The downcast shaft only to be used as a hoisting shaft and is to be large enough to allow an output of 1,200 tons per day to be hoisted. Give dimensions of each shaft. (12)

5. In timbering rooms in a pitching seam with a fair roof, how far apart would you place the timbers; if the roof was broken, describe and explain how they should be placed and how you would place a prop to carry the greatest load? (8)

6. (a) What dangers may be encountered in drawing pillars in a pitching seam?

(b) What dangers would arise from drawing pillars in a flat seam generating CH₄, which is being worked immediately under another seam separated by 65 feet of strata? (8)

7. Assume you had a property of 1,500 acres containing two seams of coal each 5 feet thick with 30 feet of strata intervening between them lying perfectly level, the depth to the top seam being 500 feet; describe—

(a) By what system would you work each seam?

(b) Say whether you would work one of these seams before the other and if so, which? Give reasons. (10)

8. What observations have you made concerning the dangers to be apprehended as far as safety to workmen is concerned—

(a) In working a pitching seam with a very strong roof?

(b) In working a flat seam with a tender roof? (10)

9. Do you consider a coal-cutting machine could be advantageously used for working a flat seam 4 feet 9 inches thick and having a tender roof; the pavement consisting of 18 inches of clay above a moderately hard rock? Give reasons for or against. (9)

10. Describe the best method for signalling which you are acquainted with—

(a) In sinking shafts;

(b) In working shafts. (7)

11. What are the chief factors leading to spontaneous combustion in coal mines? Name the principal gases given off from such fires and state fully how you would deal with an underground fire which had broken out in a section of pillars in a pitching seam. (7)

MINE MANAGERS' EXAMINATION.

Paper No. 5.

Time—Four hours.

Candidates must obtain 60 per cent. of the allotted marks to pass.

MACHINERY.

1. Describe the winding machinery, guides and safety appliances usually installed in an up-to-date coal mine, where the shaft is 650 feet deep and intended to raise an output of 1,200 tons in an eight-hour shift. (10)

2. Sketch and describe a suitable stop-block for use on a self-acting incline. For what purpose is such an appliance used? State

in your own words what rules you would make regarding the use of stop-block. (8)

3. What classes of ropes are most frequently used for winding purposes? Describe two methods which may be adopted to provide against excessive strains and shock. How long do you consider it safe to work winding ropes? (9)

4. A sump in a mine is 62 feet long, 8 feet wide and 9 feet deep, and full of water. How long will it take a 5-inch pump to empty this at a velocity of 100 feet per minute, if the leakage of the valves and resistance of the pump cause a loss of 20 per cent.? There are five 2-inch pipes running full and discharging water into the sump at a common velocity of 100 feet per minute. (7)

5. Give the breaking strain of a 11-16 cast steel wire rope of seven strands and nineteen wires to the strand. What load will break a white-oak timber 10 inches wide by 12 inches thick and 12 feet long, if the load be equally distributed along the length of the timber? (6)

6. How would you determine the proportionate areas of the cylinders and the proper point of cut-off in each, in a compound engine of two cylinders, the initial pressure being 65 pounds above the atmosphere and the final (terminal) pressure 10 pounds below the atmosphere? (6)

7. What power will be required to hoist an output of 800 tons of coal (per day) on an incline five-eighths of a mile long and rising 2 inches to the yard, extending from the inside parting to the shaft bottom, and return the empty cars, which weigh one-half as much as the load they carry; assuming the resistance of the cars to be 1-60 and the power required to move the rope equal to that required to move the cars. The speed of the rope is 3 miles per hour, and a working day 8 hours; the cars are moving 4-5 of the time. (12)

8. Describe—

(a) A feedwater heater;

(b) A steam trap;

(c) A superheater;

(d) An arrangement to reduce the quantity of black smoke. (8)

9. How would you support electric cables (a) in shafts, (b) in underground roadways? A dynamo is 100 yards from a house, the conductor has a resistance of .002 ohm per yard, and there will be one hundred and fifty 30-watt 100-volt lamps to be fed. What E.M.F. must the dynamo give? (6)

10. What are the special difficulties that are met with in sinking to the coal in the Edmonton coalfield? Describe and compare the different methods that have been used for overcoming these difficulties. (10)

11. What are the advantages and disadvantages of a belt driven fan? (6)

12. It is proposed to wind 1,000 tons per day of eight hours from a shaft 400 yards deep, the ropes being balanced. The ventilation required is 150,000 cubic feet per minute, at an estimated water-gauge of 3 inches. The power plant during the winding hours generates an average of 600 k.w. and supplies power for all purposes, other than

for winding and ventilating. Give the approximate brake horse-power of—

- (a) The winding engine;
- (b) The fan engine;
- (c) The generating engine;

and state what steam pressure, and what size, type and number of boilers you would adopt. (12)

MINE MANAGERS' EXAMINATION.

Paper No. 6.

Time—Three and a half hours.

Candidates must obtain 60 per cent. of the allotted marks to pass.

LEVELLING.

1. Draw a neat sketch with letters of reference, of the Dumpy level. (14)
2. State the causes which have operated to cause the displacement of the Y level by the Dumpy; in other words compare the Y and Dumpy levels. (9)
3. If the line of collimation in a Dumpy level was out of adjustment, how could you find two level points? (10)
4. Describe a levelling staff and explain its use. (10)
5. Fill in the following level notes, showing height of the instrument, elevation and grade, and state what is the average grade from Station 0 to Station 16. Stations are 100 feet apart. (20)

Station	B.S.	I.S.	F.S.	H.I.	Elevation	Grade	Remarks
O.B.M.	6.45						
1		3.85					
2		2.93					
3		1.84					
4		5.80					
5			3.15				
	7.20						
6		6.85					
7		4.35					
8		5.64					
9		2.10					
10			.80				
	4.86						
11		1.95					
12		5.65					
13		3.80					
14		1.60					
15		3.40					
16			2.90				

6. Plot the notes given in Question No. 5, on a vertical scale of 10 feet to the inch, marking on the number and elevation of each station.

Give the average grade from Station 0 to Station 16. Show grade by line drawn on profile. (25)

7. Describe different methods of levelling underground roadways, and say under what conditions you would use each. (12)

MINE MANAGERS' EXAMINATION.

Paper No. 7.

Time—Four hours.

Candidates must obtain 60 per cent. of the allotted marks to pass.

SURVEYING AND MAPPING.

1. Describe—

- (a) A method of surveying with the loose needle;
- (b) Plotting underground workings. (8)

2. What is meant by the term "Azimuth"?

3. State the method you would employ to accurately determine the vertical depth and also to plot the traverse section of an inclined shaft. (7)

4. Explain fully how you would make a fast needle survey underground. Illustrate your answer with a sketch plan of an underground traverse. (10)

5. Describe the operation of connecting the surface and underground surveys of a mine in a case where one shaft only is available. What method would you adopt and why? (8)

6. How would you lay down a short underground survey on the surface starting from the shaft? If the ground was steep, how would you lay off the lengths of the bearings? (10)

7. How should you proceed in plotting additional underground workings on an old plan? (7)

8. What is the magnetic meridian? How is it found and what means should you adopt to test the accuracy of the meridian line on a colliery plan? (9)

9. Calculate by sines and cosines the bearing and length of the closing line of the following traverse:

<i>Station.</i>	<i>Bearing.</i>	<i>Distance.</i>
0 to 1.....	N 43 degs. 18 mins. E.....	145 feet
1 to 2.....	S 62 " 25 " E.....	122 "
2 to 3.....	S 72 " 43 " W.....	93 "
3 to 4.....	S 69 " 55 " E.....	232 "
4 to 5.....	S 8 " 15 " W.....	173 "
5 to 6.....	N 81 " 10 " W.....	141 "
6 to 7.....	S 3 " 05 " W.....	128 "
7 to 8.....	S 43 " 18 " W.....	136 "
8 to 9.....	N 9 " 08 " E.....	285 " (15)

10. Plot the traverse given in Question 9, on a scale of 100 feet to one inch, and draw the closing line from Station 0 to Station 9. (20)

PIT BOSS EXAMINATION.

*Paper No. 1.**Time—One and a half hours.*

Candidates must obtain 60 per cent. of the allotted marks to pass.

COAL MINES ACT.

1. State in your own words what are the requirements of The Coal Mines Act, relating to the inspection of machinery (9)
2. State fully the provisions of The Coal Mines Act regarding manholes on underground roads. (12)
3. State fully the requirements of The Coal Mines Act with reference to ventilation of mines. (10)
4. State fully the provisions of The Coal Mines Act relating to the employment of persons in or about mines. (10)
5. What are the provisions of The Coal Mines Act relative to the use and care of explosives in mines. What steps would you take to enforce these provisions, or to detect persons who are violating them? (14)
6. When would you consider safety lamps necessary in order to comply with the provisions of The Coal Mines Act? (11)
7. State fully the provisions of The Coal Mines Act as to the inspection of mines—
 - (a) Before work is commenced;
 - (b) During working hours;
 - (c) By employees of the mine. (12)
8. Under what conditions does The Coal Mines Act allow a mine to be operated by a single shaft? (14)
9. What are the provisions of The Coal Mines Act regarding the appointment of stations. (8)

 PIT BOSS EXAMINATION.
*Paper No. 2.**Time—Two and a half hours.*

Candidates must obtain 60 per cent. of the allotted marks to pass.

VENTILATION, SHOT-FIRING AND SAFETY LAMPS.

1. Describe with sketches the best type of safety lamp you know for ordinary miners' use. To what points would you devote special attention in the selection of a safety lamp. (11)
2. Explain how coal-dust explosions may be brought about, and state what steps you would take to prevent them. (7)
3. Explain what conditions may cause a shot to hang fire—
 - (a) Where fuse is used for blasting;
 - (b) Where an electric battery is used.
 Describe two methods of firing shots. Which do you prefer and why? (9)

4. Show how you would ventilate the workings on the accompanying plan, having due regard to haulage. The coal is wound at the down-cast shaft only. Show by arrows the direction of the air current, putting in the necessary doors, brattices, etc. (10)
5. (a) Name and describe the explosive gases usually found in coal mines.
 (b) Under what conditions may they become explosive and non-explosive?
 (c) How are they generated in mines?
 (d) Where are they usually found, and how can they be expelled from the workings?
 (e) What effect have these gases on the health and safety of the workmen? (12)
6. What are the causes of blown-out shots, and what are the dangers arising therefrom? (5)
7. Describe how you would measure the quantity of air passing along an airway. Of two airways, one 7 feet wide and 6 feet high, the other 14 feet wide and 3 feet high, which will pass the greater quantity of air, other conditions being equal? Give reasons. (6)
8. What instruments would you use to properly determine the condition, volume and temperature of an air current in a mine? State fully the principle and action of each. (7)
9. What are the chief points which require immediate attention when the ventilation of a mine is reversed? (8)
10. 80,000 cubic feet of air per minute are circulating through a mine with a water gauge of 2 inches. What quantity will be circulated with a water gauge of 3 inches. (10)
11. What dangers have to be guarded against in a mine where the ventilating current is produced by means of a furnace? (7)
12. Discuss the advantages and disadvantages of using black powder and monobel respectively for blasting in coal. (8)

PIT BOSS EXAMINATION.

Paper No. 3.

Time—Three and a half hours.

Candidates must obtain 50 per cent. of the allotted marks to pass.

PRACTICAL WORK.

1. To what causes are accidents through falls of roof and sides attributed, and what precautions would you adopt to guard against them? (8)
2. Describe very fully the principle and action of the Fleuss Rescue Apparatus. (11)
3. Describe briefly several of the irregularities which are encountered in coal seams in the Crow's Nest Pass district. (6)
4. Describe with sketches the different methods of securing a main haulage road and pit bottom respectively. (10)
5. Describe briefly the two principle methods of working pitching seams and give the conditions suitable to each. (12)

6. Describe fully how you would proceed to fix a walling crib or curb in bad ground, and state what precautions you would take. (9)

7. Do you consider coal-cutting machines of the rotary type could be advantageously used for working a flat seam 4 feet 3 inches thick, with a moderately good roof, the floor consisting of 18 inches of fire-clay above a moderately hard parting? Give briefly your reasons for or against. (8)

8. Describe and illustrate some of the causes and effects of creep on the main roadway of a mine. (10)

9. (a) What is meant by initial explosion?

(b) If you were in charge of a mine where the old workings had caved in and filled up with gas, what precautions would you take to prevent an explosion?

(c) What causes might lead to an explosion in this case?

(10)

10. Describe fully how you would operate a flat seam of coal 5 feet 9 inches thick, with a soft fire-clay pavement, and a moderately hard roof. (9)

11. Show by sketches, arrangements for air crossings, either over or under and give your views generally with reference to them. (7)

PIT BOSS EXAMINATION.

Paper No. 4.

Time—Three and a half hours.

Candidates must obtain 50 per cent. of the allotted marks to pass.

MACHINERY.

1. Why is it necessary in deep shafts to counterbalance a hoisting rope? Describe briefly one method of doing this. (7)

2. Give a short description with sketches showing how you would conduct an endless haulage rope around quick curves. (7)

3. How would you ascertain the horsepower of a dynamo? (6)

4. Describe with a sketch the principle of the force pump, stating the limits under which it will work most satisfactorily. (9)

5. In a single acting force pump, the diameter of the plunger is 3 inches and the stroke is 12 inches. If the plunger makes 100 strokes per minute, calculate how many gallons of water will be delivered per hour. (10)

6. Describe the principle and action of the syphon, and state under what circumstances it may be beneficially applied for conveying water in mines. Give a sketch showing its application. (10)

7. Explain the principle and action of—

(a) The thermometer;

(b) The barometer;

(c) The hygrometer.

Say for what purpose each is used in connection with mining.

(9)

8. If a cross-bar 12 inches in diameter and 8 feet between notches carries a certain load, what should be the diameter of a cross-bar 14 feet

between notches to bear the same load? (with the same degree of safety.) (7)

9. Give specifically your reasons for preferring a main haulage engine being placed at the surface or underground—

(a) Where steam power is used;

(b) Where electric power is used. (8)

10. Describe the best driving pulley for endless rope haulage which you are acquainted with. (9)

11. What is the horsepower of an engine having a 28 inch stroke? The diameter of cylinder is 12 inches and effective steam pressure 80 pounds per square inch. (8)

12. A quantity of water which necessitates an 8-inch rising main has to be pumped up a shaft 200 yards deep. State the respective conditions under which you would use cast iron and steel pipes. How would you support the pipes in a shaft having wire conductors and what precautions would you take in replacing a broken pipe near the bottom of the shaft? (10)

PIT BOSS EXAMINATION.

Paper No. 5.

Time—Four hours.

Candidates must obtain 50 per cent. of the allotted marks to pass.

SURVEYING.

1. Describe fully with dimensioned sketch, the kind of mine car you consider to be best adapted for use in mines in the Crow's Nest Pass district. (12)

2. What steps would you take in order to comply with the provisions of The Coal Mines Act with regard to the plans of an abandoned mine? (9)

3. Plot the following survey to a scale of 100 feet to the inch:

<i>Station.</i>	<i>Bearing.</i>	<i>Distance.</i>
1 to 2.....	S 20 degs. 40 mins. E.....	143 feet
2 to 3.....	S 78 " 15 " E.....	114 "
3 to 4.....	S 5 " 40 " E.....	222 "
4 to 5.....	N 72 " 20 " W.....	192 "
5 to 6.....	S 40 " 35 " W.....	162 "
6 to 7.....	N 38 " 50 " W.....	288 " (20)

4. Give the bearing and length of the closing line from station 7 to station 1, of the survey given in Question No. 3. (12)

5. Mention briefly the method you would adopt to secure accuracy when plotting workings on the plan of a mine on which are shown workings closed twenty years previously. (10)

6. Name and describe the instruments used in connection with levelling roadways underground. State the different methods employed in such levelling and say under what conditions you would use each. (11)

7. Describe a method of surveying and plotting underground workings. (10)

8. What are the advantages of keeping plans of mines? How often ought a mine to be surveyed and the mine plans brought up to date. (8)

9. The dimensions of an airway are 6 feet high by 8 feet wide, by 894 feet long and the velocity of the air is 225 feet per minute; what quantity of air is passing per minute and what is the rubbing surface of the airway? (8)

FIRE BOSS EXAMINATION.

Paper No. 1.

Time—One and a half hours.

Candidates must obtain 60 per cent. of the allotted marks to pass.

COAL MINES ACT.

1. What are the qualifications required by The Coal Mines Act before a person can be allowed to act as fire boss? (9)
2. State fully the provisions of The Coal Mines Act governing safety lamps. (12)
3. State the conditions under which it would be necessary to withdraw workmen from a mine in order to comply with The Coal Mines Act. (10)
4. State fully what action you would take before firing shots in a mine generating fire-damp. (12)
5. What are the provisions of The Coal Mines Act relating to the care and handling of explosives? (14)
6. State briefly how you would proceed to make a thorough examination of a mine as fire boss; stating what you consider the most essential features to be noted so far as the safe working of the mine is concerned. (12)
7. What are the requirements of The Coal Mines Act relating to manholes on underground roadways? (11)
8. What are the requirements of The Coal Mines Act regarding—
 (a) A supply of timber?
 (b) Appointment of stations? (10)
9. What are the provisions of The Coal Mines Act relating to the inspection of mines, both before and during work? (10)

FIRE BOSS EXAMINATION.

Paper No. 2.

Time—Two hours.

Candidates must obtain 60 per cent. of the allotted marks to pass.

VENTILATION AND SAFETY LAMPS.

1. What is meant by splitting the air current in a mine, and what effect has it upon the total volume of air in circulation? (8)
2. A volume of 22,000 cubic feet of air per minute is passing along an airway 6 feet high by 8 feet wide; what is the velocity of the air in feet per minute? (7)

3. Describe fully the anemometer and thermometer, and say for what purpose each is used in connection with mine ventilation. (10)
4. Describe with sketch, some form of safety lamp which you consider most suitable for the use of miners. Discuss the advantages and disadvantages of having safety lamps fitted with internal ignitors. (12)
5. What causes are likely to lead to explosions in mines, and state fully what precautions you would take to prevent them? (8)
6. Discuss the advantages and disadvantages of having open lights in mines, and say what dangers are likely to arise from their use. (9)
7. In a mine with an output of 1,200 tons per day, the average daily output per man is $3\frac{1}{2}$ tons; what is the minimum quantity of air per minute you would have circulating around the mine? (8)
8. What is meant by "Natural Ventilation"? Explain fully the principle of natural ventilation and state its advantages and disadvantages as compared with artificial ventilation. (10)
9. Explain the difference between the forcing fan and exhausting fan system of ventilation, and state under what circumstances you would adopt one in preference to the other. (9)
10. Describe fully the construction of a regulator, and say for what purpose it is used. (10)
11. Explain fully how you would clear out an accumulation in a narrow heading of—
 - (a) Fire-damp; (9)
 - (b) Black-damp. (9)

FIRE BOSS EXAMINATION.

Paper No. 3.

Time—One and a half hours.

Candidates must obtain 50 per cent. of the allotted marks to pass.

GASES AND SHOT-FIRING.

1. What are the chief noxious gases met with in coal mines? In what percentage is each dangerous to human life, and how would you test for the presence of each in a mine? (11)
2. Describe briefly two methods of firing shots. Give the advantages and disadvantages of each. (8)
3. What are the circumstances that may cause a blown-out shot? State the dangers that may occur from blown-out shots and what precautions you would take to prevent this. (10)
4. Under what circumstances do you consider a high explosive to be preferable to ordinary black powder for blasting? (8)
5. Under what conditions may coal-dust become a dangerous agent in coal mines? (10)
6. Discuss fully the effect of various percentages of gas on the flame of an ordinary safety lamp, stating the best methods you know of testing for gas. (9)

7. Explain under what circumstances may you have an explosion in a mine where the flame of the safety lamp does not show any indications of the presence of fire-damp. (9)
8. What is meant by "Diffusion of Gases" and what effect does this have on the ventilation of a mine? (9)
9. Explain fully from what sources CH_4 is generated in mines in the lignite field, and what steps you would take to prevent an accumulation of this gas. (7)
10. Describe some form of electric battery for shot-firing, and discuss its advantages and disadvantages. (8)
11. Following a low barometer at a mine in course of development, gas exuded to such an extent as to fill the working places out to the main intake. To what causes would you attribute such an occurrence, and what steps would you take to restore adequate ventilation in the mine? (11)

FIRE BOSS EXAMINATION.

Paper No. 4.

Time—Two and a half hours.

Candidates must obtain 50 per cent. of the allotted marks to pass.

PRACTICAL WORK.

1. What precautions would you take to overcome the dangers to be apprehended as far as safety to workmen is concerned, in working a coal seam with a very strong roof in longwall, and stoop and room workings, respectively? (9)
2. What arrangements would you make on underground roads where the haulage is done by means of horses, to insure the safety of drivers and all persons employed in the mine? (7)
3. Describe the principle and action of the Fleuss Mine Rescue Apparatus, and state what experience you have had with it. (12)
4. Describe with sketches two methods of extracting pillars on a seam 12 feet thick and pitching at an angle of 38 degrees, with a fairly good roof. Say which method you prefer and give reasons for your preference. (10)
5. Describe fully the method of boring and the tools required, when approaching old workings likely to contain large accumulations of water and gas. (8)
6. Describe with sketches how you would work a flat seam of coal 4 feet 3 inches thick with soft roof and pavement. (11)
7. Sketch and describe the various systems of timbering a main road with which you are acquainted, and briefly explain the circumstances suitable to each. (7)
8. A number of underground fires have occurred within recent years in mines in the Lethbridge district. Describe fully how in your opinion these fires may be caused and what precautions you would take to prevent them. (8)
9. Discuss the advantages and disadvantages of firing shots in the lignite field by means of squibs and fuse respectively. (7)

10. If a seam of coal dips to the south and a down-throw fault is met in driving an east level, in which direction should the road be turned to again reach the coal? (6)

11. Describe with sketches some method of timbering a working place on a 14-foot seam which is pitching at an inclination of 40 degrees. (6)

12. Sketch and describe with dimensions a ventilation door which you would erect on the main haulage road of a flat seam. (9)

WAGES.

The scale of wages paid in the province during the year 1912 remains the same as it was at the end of the year 1911, and is as follows:

Outside Wages.

Fire bosses	\$110.00 to \$115.00 per month.			
Bottom man	\$2.89 per day, 10 hrs.			
Slate pickers (boys)	1.37 "	"	10 "	
Slate pickers (men)	2.47 "	"	10 "	
Car oilers (men)	2.47 "	"	10 "	
Car oilers (boys)	1.65 "	"	10 "	
Tally boys	1.37 "	"	10 "	
Teamsters	2.89 "	"	10 "	
Blacksmith	3.85 "	"	10 "	
Blacksmith's helpers	2.90 "	"	10 "	
Power-house engineers	3.85 "	"	12 "	
Power-house engineers	3.40 "	"	8 "	
Fan-men	2.90 "	"	12 "	
Hoisting engineers	3.20 "	"	8 "	
Hoisting engineers	3.78 "	"	10 "	
Hoisting engineers	4.40 "	"	12 "	
Tail rope engineers	3.63 "	"	8 "	
Tail rope engineers	3.85 "	"	10 "	
Endless rope engineers	3.30 "	"	10 "	
Box-car loader engineer	3.40 "	"	10 "	
Tipple engineer	3.40 "	"	10 "	
Screen engine tender	2.65 "	"	10 "	
Locomotive engineer	3.40 "	"	10 "	
Locomotive switchman	3.00 "	"	10 "	
Fireman	2.89 "	"	8 "	
Fireman	3.85 "	"	12 "	
Fireman's helper	2.65 "	"	10 "	
Railway-car helper	2.60 "	"	10 "	
Tipple dumper (man)	2.89 "	"	10 "	
Tipple dumper's helpers	2.64 "	"	10 "	
Tipple dumper (boy)	1.65 "	"	10 "	
Top cages	2.64 "	"	10 "	
Car repairer	3.40 "	"	10 "	
Car repairer's helper	2.90 "	"	10 "	
Breaker engineer	3.40 "	"	10 "	
Fan fireman	3.40 "	"	12 "	
Lampman (depending upon number of lamps and skill of man)	\$2.47 to 2.89 "	"	8 "	
Lampman (depending upon number of lamps and skill of man)....)	\$2.47 to 3.40 "	"	12 "	
Machinists	\$3.40 to 3.85 "	"	10 "	
Machinist's helper	2.90 "	"	10 "	
Ashman	2.50 "	"	10 "	
Ashman	2.89 "	"	12 "	
Wiper (man)	2.89 "	"	12 "	
Coupler (man)	2.47 "	"	15 "	
Coupler (boy)	1.65 "	"	10 "	
Breaker oiler	2.89 "	"	11 "	

DEPARTMENT OF PUBLIC WORKS

Washer or tippie oiler	\$2.89	per day	11 hrs
Breaker picker boss	2.89	"	" 10 "
Timber framer	3.40	"	" 10 "
Timber sawyer	2.64	"	" 10 "
Box-car shoveller	2.89	"	" 10 "
Breaker platform boss	2.89	"	" 10 "
Breaker platform men	2.60	"	" 10 "
Breaker screen men	2.47	"	" 10 "
Rock bank men	2.47	"	" 10 "
Dirt bank men	2.47	"	" 10 "
Finisher after box-car loader	2.47	"	" 10 "
All other outdoor labour	2.47	"	" 10 "

Bee Hive Coke Ovens

Levelling and drawing (6 1-2 ton charge) per oven....	\$1.00
Levelling and drawing (5 ton charge), per oven .....	.80
Loading into box or open cars (over 200 tons per month), per ton .....	.17
Loading into box or open cars (less than 200 tons per month), per ton .....	.16
Seam locomotive engineer	\$3.40 per day 10 hrs.
Motorman	3.18 " " 10 "
Larryman	2.47 " " 10 "
Plasterers	2.47 " " 10 "
Carters and cleaners	2.47 " " 10 "
All other labor	2.47 " " 10 "

Belgian Coke Ovens.

Ram engine man	\$3.40 per day 10 hrs.
Chargers	2.89 " " 10 "
Clayers	2.89 " " 10 "
Drawers	2.89 " " 10 "
Loaders	2.60 " " 10 "

Briquette Plant

Engineer	\$3.86 per day 12 hrs.
Briquetter	3.97 " " 12 "
Briquetter's helper	3.40 " " 12 "
Tar melter	2.89 " " 12 "
Labourers	2.89 " " 12 "

Inside Wages.

Shotlighter	\$3.30 per day 8 hrs.
Bratticeman	3.30 " " 8 "
Bratticeman's helper	2.75 " " 8 "
Timberman	3.30 " " 8 "
Timberman's helper	3.75 " " 8 "
Tracklayers	3.30 " " 8 "
Tracklayer's helper	2.75 " " 8 "
Motorman	3.05 " " 8 "
Motorman's helper	2.75 " " 8 "
Locomotive engineer	3.05 " " 8 "
Locomotive switchman	2.75 " " 8 "
Drivers	3.03 " " 8 "
Drivers (wet places)	3.30 " " 8 "
Drivers (spike team)	3.50 " " 8 "
Couplers (men)	2.75 " " 8 "
Couplers (boys)	1.65 " " 8 "
Switch boys	\$1.37 to 1.65 " " 8 "
Door boys	1.10 " " 8 "
Rope riders	3.03 " " 8 "

Main and tail rope riders	\$3.30	per day	8 hrs.
Pushers	2.75	" "	8 "
Buckers	2.75	" "	8 "
Loaders	2.75	" "	8 "
Miners	3.30	" "	8 "
Miners (wet places)	3.75	" "	8 "
Rock miners	3.75	" "	8 "
Timber handlers	3.03	" "	8 "
Laborers	2.75	" "	8 "
Cagers, slope and incline	2.75	" "	8 "
Cagers, shaft	3.30	" "	8 "
Machine men	3.75	" "	8 "
Machine men's helper	3.30	" "	8 "
Pumpmen	2.75	" "	8 "
Pumpmen (Dept. Nat. Res. C.P.R.)..	3.20	" "	8 "
Hoistmen	\$3.03 to	3.30	" " 8 "
Drivers (boys)	\$1.65 to	2.75	" " 8 "
Grippers	2.75	" "	8 "
Grippers (boys)	\$1.65 to	1.75	" " 8 "
Pipe fitters' helpers	2.75	" "	8 "
Pit carriers	\$1.37 to	2.75	" " 8 "
Clutchmen	3.30	" "	8 "
Rollermen	2.75	" "	8 "
Miners on contract average \$350 to	6.00	" "	8 "

Although the output of coal during the year 1912 shows an increase of 409,592 tons over the year 1910, this increase would have been much greater if the industry had not been hampered considerably by the lack of railway cars, particularly during the early part of the year. A number of the mines in the Crow's Nest Pass and Lethbridge districts only worked an average of 8 or 9 days per month for several months. If a sufficient supply of cars is obtained during the present year, a very much increased output may be expected.

I have the honour to be, Sir

Your obedient servant,

JOHN T. STIRLING,

Provincial Inspector of Mines.

THE STEAM BOILERS BRANCH

Inside Staff—	{ One Clerk in charge. One Chief Inspector. One Stenographer.
Outside Staff—	{ Four District Inspectors. Three Assistant Inspectors.

The returns for the year ending December 31st, 1912, covering work in connection with the Steam Boilers Branch show a very marked increase over the corresponding period last year, and the inspectors' reports indicate that at the close of a very busy season there yet remain portions of each district not fully covered by inspection. Special efforts are made, however, to visit all stationary plants regularly once every year,

and oftener in some instances, in order to determine whether repairs ordered have been attended to and satisfactorily completed.

Every endeavour is made by the inspectors to inspect each and every boiler in their individual district at least once a year, but with the staff available at the present time, and considering the extent of territory to be covered, this is found to be practically impossible.

Although bad roads, requests for special inspections, monthly examinations of candidates for engineers' certificates, etc., have interfered somewhat with the routine of inspection, there have been 1,590 inspection certificates issued for boilers during the year, while 71 other boilers were inspected but no certificates issued therefor, pending completion of repairs. Sixteen boilers in all were condemned.

While the great majority of steam users in the province recognise the advantage of careful and efficient operation of their plants, some few owners are still met with, who, through lack of interest and want of knowledge necessary for the proper upkeep of their plants, suffer considerable loss of fuel and boiler efficiency, also output, through defective settings, scale in boilers, faulty steam pipes, etc.

During the months of March and April, regular advertised examinations for engineers were held at 62 points throughout the province, at which a total of 1,354 candidates presented themselves for examination. In addition to those advertised and held during the spring, there have been regular monthly examinations held at the respective headquarters of each district inspector, and certificates were issued to those successful in passing for the various classes as follows: First class, 13; second-class, 56; third-class, 421, traction final, 139; fireman's final, 4; provisional, 751; renewal of provisionals, 121; second provisional, 86.

Two hundred and eighty-four permits have also been granted to owners in accordance with the provisions contained in section 34 of The Boilers Act.

Seven registered engineers had their certificates suspended for neglect of duty, and two others had their certificates cancelled, they having been found under the influence of liquor while on duty.

Convictions were obtained in 19 cases of prosecution for violation of the Act.

An innovation was made during the year by the purchase of three Ford single seated "Roadster" automobiles which were assigned to districts most suitable for this mode of travel, the teams previously used being dispensed with. The superiority of these autos over the teams has been amply demonstrated during the six months in which they have been operated, a total of 11,000 miles having been covered at a cost of five and a half cents per car mile. The quicker means of travel provided in this way has resulted in a considerable saving of time when moving from point to point, and a consequent increase in the number of boilers inspected throughout the districts were operated.

Justifiable allusion may again be made here to the regulations which now have such an important bearing on all matters relating to the construction of boilers intended for operation in this province. Continued satisfaction with the results obtained from their application is

heard expressed on every hand, both from the manufacturers and the purchasers of boilers, and it is interesting to note, so widely have they become known and appreciated, that almost every mail brings requests for copies, such requests emanating from Great Britain, Panama, almost every state in the Union to the South, and even from Tokio, Japan. In some instances it has been mentioned that copies are to be used specifically as a basis on which to formulate similar data, and for like purposes as applied here.

Twenty-seven per cent. of the total number of Inspection Certificates issued during the year covered new boilers built to Alberta regulations, a similar percentage to that reported last year.

The Chief Inspector appends an interesting report, one item therein being particularly worthy of notice, as showing that at the present time there is some 150,000 boiler horsepower in the province under the jurisdiction of this branch.

The names and addresses of the Chief, District and Assistant Inspectors are given below:

F. W. Hobson	Edmonton.
Jos. Buxton	Calgary.
David Fraser	Edmonton.
N. Marshall	Lethbridge.
W. D. Watson	Red Deer.
F. P. Poole	Edmonton.
E. S. Hodges	Calgary.
W. Gray	Lethbridge.

A consolidated summary, compiled from the Inspectors' reports, showing the total number of defects found in boilers examined during the year, follows:

DEFECTS IN	Hor. Tub.	Hor. Fur.	Ret. Tub.	Loco. F box	Vert. Tub.	Water Tube	Total
Shell and drum	18	4	10	9	6	11	58
Front tube sheet	2	..	..	31	..	..	33
Back tube sheet .....	..	1	..	13	..	1	15
Top tube sheet	2	..	1	4	..	..	7
Bottom tube sheet .....	..	..	..	25	2	..	27
Firebox side sheet (inside)..	..	..	..	52	2	..	54
Firebox side sheet (outside)..	..	..	..	27	..	..	27
Crown sheet .....	..	..	7	116	2	..	125
Saddle sheet .....	..	..	..	..	..	..	..
Inside W.B. sheet .....	..	..	..	16	..	..	16
Outside W.B. sheet .....	..	..	..	14	..	..	14
Back sheet .....	..	..	..	6	..	..	6
Face plate .....	..	..	..	10	..	..	10
Throat sheet .....	..	..	..	3	..	..	3
Foundation and door rings..	..	..	..	9	..	..	9
Stay bolts .....	..	..	3	192	..	..	195
Crown stays .....	..	..	1	38	..	..	39
Longl. stays	3	..	1	1	..	..	5
Leaking seams	11	..	1	4	6	..	22
Rivets .....	..	5	..	..	2	..	7
Main flues .....	..	..	..	..	..	..	..
Tubes	9	..	3	36	22	10	80
Hand holes and man holes ...	6	5	1	22	47	..	81
Studs and bracket (attach)..	..	..	2	30	2	..	34
Safety valves	15	1	2	102	30	..	150
Steam gauges	19	6	4	95	9	1	134
Water gauge fittings	35	5	3	85	23	2	153
Blow down	33	3	3	98	37	7	181
Fusible plug	20	8	3	53	3	5	92
Other fittings .....	..	..	..	..	..	..	..
Settings	21	23	1	1	..	..	46
Heavy scale	32	..	1	41	1	2	77
Feed arrangement	21	..	..	..	..	..	21
Steam piping and supports .	13	..	..	1	..	2	16
Hand railing for fly wheels Switchboards, etc.	4	..	..	..	..	..	4
Total	264	61	47	1134	194	41	1741

A schedule of certificates issued and fees collected, inspectors' annual reports, list of manufacturers and list of final certificates issued to December 31st, are appended:

	1911	1912
Number of certificates issued for boilers inspected	1,311	1,590
Number of advertised examinations for engineers held	58	62
Number of first class certificates issued	7	13
Number of second class certificates issued	49	56
Number of third class certificates issued	428	421
Number of traction final certificates issued....	....	139
Number of fireman's final certificates issued..	....	4
Number of provisional certificates issued	698	751
Number of second provisional certificates issued	89	86
Number of renewals of provisional certificates..	86	121
Number of permits issued	184	284

FEES COLLECTED.

	1911	1912
For inspection of boilers	\$ 6,426.00	\$ 7,898.00
For special inspection of boilers	36.05	438.66
For examination of engineers for final certificates	2,523.00	3,308.00
For provisional certificates	3,517.00	3,755.00
For second provisional certificates	455.00	410.00
For renewal of provisional certificates....	215.00	303.00
For permits	920.00	1,420.00
For surveys of drawings	1,296.00	1,187.04
	<u>\$15,388.05</u>	<u>\$18,719.70</u>

EXPENDITURE

For the year ending December 31st, 1912 in connection with the administration of the Steam Boilers Act.... \$25,820.57

The following is a complete list of manufacturers whose designs for boilers and boiler accessories have been submitted to and approved by the department.

MANUFACTURERS OF BOILERS.

Canada.

American-Abell Co., Toronto, Ont.
 Bell (Robert) Co., Seaforth, Ontario.
 Beatty (M.) & Sons, Welland, Ontario.
 Berg Manufacturing Co., Toronto, Ontario.
 Caledonian Ironworks, Montreal.
 Canada Iron Corporation, Ltd., Midland, Ontario.
 Doty Engine Works, Goderich, Ontario.
 Dominion Bridge Co., Montreal, P.Q.
 Fraser & Chalmers Co., Montreal, P.Q.
 Grand Trunk Pacific Railway Co., Winnipeg, Manitoba.
 Goldie & McCulloch, Ltd., Galt, Ontario.
 Inglis (John) Co., Ltd., Toronto, Ontario.
 Jenckes Machine Co., Ltd., St. Catherines, Ontario.
 Leonard (E.) & Sons, London, Ontario.
 Marsh & Henthorn, Ltd., Belleville, Ontario.
 Montreal Locomotive Works, Montreal.
 Matheson (I.) & Co., New Glasgow, N.S.
 Macdonald (The) Thresher Co., Stratford, Ontario.

Polson Iron Works, Toronto, Ont.
 Robb Engineering Co., Amherst, N.S.
 Sawyer-Massey Co., Ltd., Hamilton, Ontario.
 Waterous (The) Engine Co., Ltd., Brantford, Ontario.
 White (George) & Sons, Ltd., London, Ontario.

England.

Babcock & Wilcox, Ltd., London (Canadian Agency, Montreal).
 Fowler (John) & Co., Leeds, Yorkshre.
 Lubecker (The) Machine and Manufacturing Co., London, England.
 Robey & Co., Limited, Lincoln, Eng.
 Rushton Proctor Co., Lincoln, Eng.

United States.

American Hoist and Derrick Co., St. Paul, Minn.
 Aultman & Taylor Co., Mansfield, Ohio.
 Avery Co., Peoria, Ill.
 Broderick (The) Co., Muncie, Ind.
 Buffalo Steam Road Roller Co., Springfield, Ohio.
 Bucyrus Co., Ltd., Milwaukee, Wis.
 Bigelow Company, New Haven, Conn.
 Clyde Iron Works, Duluth, Minn.
 Case (J. I.) Threshing Co., Racine, Wis.
 Duluth Boiler Works, Duluth, Minn.
 Davenport Locomotive Works, Davenport, Iowa.
 Erie City Iron Works, Erie, Pa.
 Freeman (S.) & Sons, Racine, Wis.
 Farquahar (A. B.) Co., York, Pa.
 Frost Manufacturing Co., Galesburg, Ill.
 Garr, Scott Co., Richmond, Ind.
 International Boiler Works, East Stroudsburg, Pa.
 Johnson Bros., Ferrysburg, Mich.
 Kelly Springfield Road Roller Co., Springfield, Ohio.
 Leffel (J.) & Co., Springfield, Ohio.
 Marion Steam Shovel Co., Marion, Ohio (Canadian Agents, F. H. Hopkins & Co., Montreal).
 Muskegon Boiler Works, Muskegon.
 Mundy (J. F.) Hoisting Engine Works, Newark, N.J.
 Nichols & Shepard Co., Battle Creek, Mich.
 Oil Well Supply Co., Pittsburg, Pa.
 Orr and Sembower, Reading, Pa.
 Porter (H. K.) Co., Pittsburg, Pa.
 Reeves & Company, Columbus, Ind.
 Rumely Co., La Porte, Ind.
 Schwab-Lazotte Co., Milwaukee, Wis.
 Springfield Boiler and Manufacturing Co., Springfield, Ill.
 The Browning Engineering Co., Cleveland, Ohio.
 Union Iron Works, Erie, Pa.

MANUFACTURERS OF BOILER ACCESSORIES.

Canada.

Babcock & Wilcox, Ltd., Montreal, P.Q.
 Beatty (M.) & Sons, Ltd., Welland, Ont.
 Crane & Ordway Co., Ltd., Winnipeg, Man.
 Canadian Fairbanks Co., Montreal, P.Q.
 Engineering Specialties Co., Toronto, Ont.
 Goldie & McCulloch Co., Ltd., Galt, Ont.
 Jenkins Bros., Montreal, P.Q.
 Leonard, (E.) and Sons, Ltd., London, Ont.
 McAvity (T) and Sons, St. John, N.B.
 Morrison (Jas.) and Sons, Brass Mfg. Co., Toronto, Ont.

Penberthy Injector Co., Windsor, Ont.
 Peacock Bros., Montreal, P.Q.
 Robb Engineering Co., Amherst, N. S.

United States.

American Steam Gauge & Valve Co., Boston, Mass.
 Ashton Valve Co., Boston, Mass.
 Ashcroft Manufacturing Co., Chicago, Ill.
 Buckeye Iron & Brass Works, Dayton, Ohio.
 Bordo (L. J.) Co., Philadelphia, Pa.
 Crosby Steam Gauge & Valve Co., Boston, Mass.
 Crane Company, Chicago, Ill.
 Industrial Instrument Co., Foxboro, Mass.
 Huyette, (P.B.) Co., Philadelphia, Pa.
 (Submitted by H. L. Pelier & Co., Montreal, P.Q.)
 Kunkle (E.B.) & Co., Fort Wane, Ind.
 Lunkenheimer Co., Cincinnati, Ohio.
 Lonergan, (J. E.) & Co., Philadelphia, Pa.
 Marsh, (J. P.) & Co., Chicago, Ill.
 Nelson Valve Co., Philadelphia, Pa.
 Ohio Brass Works, Mansfield, Ohio.
 Powell (Wm.) & Co., Cincinnati, Ohio.
 Pittsburg Valve Foundry & Construction Co., Pittsburg, Pa.
 Roe Stephens Co., Detroit, Mich.
 United States Gauge Co., New York, N. Y.

EDMONTON, January 11th, 1913.

JOHN STOCKS, Esq.,

Deputy Minister of Public Works,

Edmonton, Alta.

SIR,—I have the honour to submit to you my annual report for the year ending December 31st, 1912, in accordance with section 8 of The Boilers Act.

Owing to the rapid increase in the business in this branch during the year I have been obliged, with your consent, to relinquish the charge of my district lying north of the Saskatchewan River to Inspector D. Fraser, in order to devote the whole of my time to the general administration of "The Boilers Act" and the regulations governing construction and inspection of boilers throughout the province.

It is regretted that I cannot compile correct data for your information, in time for publication, covering the number and variety of designs submitted for the approval of the department, also the correspondence received and sent out in connection with this service, further than to state that the revenue derived therefrom amounts to \$1,187.04.

The work of surveying designs is seriously delayed from time to time, due to frequent interruptions consequent upon having to interview representatives of the various manufacturers and others directly interested in the work of the branch generally, and these daily interruptions make it impossible for me to devote the time necessary to a proper supervision of matters outside the office relative to the Act and regulations which, if thoroughly understood by the steam users and their employees, would result in a uniform application of same throughout

the province, and would also eliminate to a large extent the possibility of any misunderstanding regarding the requirements necessary in the installation of new plants.

We have at the present time at least 150,000 boiler horsepower under our supervision, estimated as follows:

Southern Alberta District.

	Horsepower
Commercial	29,200
Agricultural	13,100
Total	42,300

Calgary District.

	Horsepower
Commercial	26,000
Agricultural	14,000
Total	40,000

Central Alberta.

	Horsepower
Commercial	6,500
Agricultural	8,800
Total	15,300

Northern Alberta.

	Horsepower
Commercial	19,000
Agricultural	6,000
Total	25,000

The foregoing represents a gross total of 122,600 horsepower inspected during the year, to which must be added some 28,000 (a conservative estimate) not inspected, and comprised mostly of agricultural power, making in all a figure exceeding 150,000 horsepower operated during the past year.

Forty-four per cent. of this power is being utilized for development and industrial purposes, 38 per cent. agricultural, and 18 per cent. coal mines.

The figures quoted above do not include boilers used solely for heating purposes, or other boilers exempted from inspection under Section 3 of the Act.

Notwithstanding the increased number of boiler plants in operation during the past year, we are pleased to say that we can again report no accidents have occurred to any boiler or other machinery under the Act causing loss of life or even serious injury to any person.

The operation of "The Boilers Act" enacted February 16, 1912, has been very satisfactory generally, both to the public and the boilers

branch, and if the three items therein are corrected as recommended to you last December, it will complete an Act that can be successfully applied for years to come.

I have to report 19 convictions obtained throughout the province during the year.

I am, Sir,

Your obedient servant,

F. W. HOBSON,

Chief Inspector of Boilers.

LETHBRIDGE, January 2nd, 1913.

JOHN STOCKS, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alta.

SIR,—I have the honour to submit to you my annual report for the year ending December 31st, 1912, as required by section 8 of the Boilers Act.

The year's work opened in January with the usual annual conference of the district inspectors held in Edmonton for the purpose of discussing matters of importance connected with the branch generally in all parts of the province. I left Edmonton for Lethbridge on February 14th and devoted the balance of the month to inspection of boilers in the Crow's Nest Pass district, these not having been inspected during the year 1911.

In the month of March I held consecutive examinations for engineers at 14 different points in my district, ending on the 6th of April. In addition to these, there have been examinations held in the court house building at Lethbridge on the first Saturday of each month throughout the year, which have proved to be a great convenience to candidates, although the work takes up considerable time afterwards checking over and marking papers written at the examinations, applications for certificates during the year being very numerous.

Office work in general is still heavy and occupies much time, letters and personal enquiries are on the increase, while special inspection work performed at the request of various owners, has broken in on the daily routine of district work, firms being most anxious that everything in their plans should be first class and conform to the regulations.

The results of engineers' examinations are hereafter given in detail:

A total number of 366 candidates were examined, 38 of these failed to pass for the class in which they sat, but were granted certificates of a lower grade.

Issue of certificates recommended as follows:

Provisional	167
Final traction	98
Third class stationary	75
Second class stationary	21
First class stationary	5
Total	<u>366</u>

One hundred and one permits were issued under section 34 of The Boilers Act, to enable employers to keep their plants in operation until certified men could be obtained.

One engineer has had his certificate suspended for 12 months on account of gross carelessness in the discharge of duty.

There has been a large increase in the number of both stationary boilers and plowing outfits during the year, and it has been impossible with only one assistant inspector to cover the whole of this division, though we have one automobile which has been used for six months to the best advantage in the district where results would be most satisfactory. The work as a whole is not up to date, as there still remain many boilers which have not been inspected during the year just ended.

Summary of boilers inspected and certificates issued therefor by me.

Inspected and certificates issued	195
Inspected and no certificates issued	7
Total	<u>202</u>
Condition of boilers inspected, good	112
Condition of boilers inspected, fair	82
Condition of boilers inspected, moderate	4
Condition of boilers inspected and condemned	4
Total	<u>202</u>

Following is the number of different types of boilers inspected:

Horizontal Return Tubular	46
Locomotive	123
Water Tube	5
Robb Mumford	7
Robb Brady	4
Vertical Fire Tube	16
Marine	1
Total	<u>202</u>

I have to report four boiler accidents as follows:

(1) The firebox crown sheet of a locomotive type of boiler collapsed, caused by shortness of water.

While this was a very serious accident, I am pleased to say that no one was injured.

(2) Three horizontal return tubular boilers had bottoms bulged seriously, due to formation of scale in each case. Two of these boilers were in the same plant in Crow's Nest Pass district, while the third was in Medicine Hat.

Notification of these accidents only reached this office on December 30th, and the boilers were inspected on the day following. Investigation into the cause is now being made.

Your obedient servant,

NAT MARSHALL,

Inspector of Boilers.

LETHBRIDGE, January 2nd, 1913.

JOHN STOCKS, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alta.

SIR,—I have the honour to submit to you my annual report for the year ending December 31st, 1912, in accordance with the requirements of section 8 of The Boilers Act.

Travelling throughout the district during the first five months of the year was done by team and rail. From the end of May until the beginning of November all travelling was done by automobile, while from November to the close of the year a great many of the journeys had to be made by team and rail, due to the bad state of the roads.

On the 31st of December I accompanied Inspector Marshall to the Crow's Nest Pass district, also to Medicine Hat to inspect three boilers which had been damaged by over-heating of plates. Though the damage to the boilers was serious, I am pleased to say no one was injured.

During the year just ended I inspected a total of 339 boilers, summarised as follows:

Boilers inspected and certificates issued	319
Boilers inspected and no certificates issued	20
Total	339

Conditions of boilers inspected: Good, 270; moderate, 11; fair, 54; bad, 3; condemned, 1. Total, 339.

Different types of boilers inspected:

Locomotive	221
Horizontal Tubular	56
Robb Mumford	13
Water Tube	19
Vertical Dry Top	20
Vertical Submerged Top	1
Vertical Flue	1
Horizontal Return Flue	8
Total	339

I have examined 24 candidates for provisional certificates during the year, to whom same were granted.

Twenty-three permits have been issued under section 34 of The Boilers Act, in order to enable employers to keep their plants going.

Your obedient servant,

WM. GRAY,

Assistant Inspector of Boilers.

CALGARY, January 14th, 1913.

JOHN STOCKS, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alta.

SIR,—I have the honour to submit my annual report for the year 1912, as inspector of boilers for District No. 2, in accordance with section 8 of The Boilers Act.

At the beginning of the year I attended the annual conference of the district inspectors, held in Edmonton, for the purpose of discussing important matters affecting the operations of the branch generally throughout the whole of the province, returning to Calgary for district work on February 14th.

Commencing on February 27th began to hold a series of 15 advertised examinations of candidates for engineer's certificates in different parts of the district, and in addition to these, have held examinations in the public works office at Calgary on the first Saturday in each month throughout the year, with the exception of the February examination, which was held during the time I was absent from Calgary attending conference referred to above, Assistant Inspector Hodges taking charge during my absence.

Following is a summary showing the total number of applicants examined for engineer's certificates:

First class	1
Second class	7
Third class	150
Provisional	225
Renewals of provisional certificates	30
Failed to qualify for certificates	68
Total	481

Seventy-six permits were issued to owners during the year under section 34 of The Boilers Act.

During the year I visited 157 boilers and issued inspection certificates for 135, the remainder being out of commission, changing owners, etc.

Condition of boilers inspected and for which certificates were issued:
Good, 62; very fair, 58; fair, 15.

Various types of boilers inspected:

Horizontal Tubular	25
Water Tube	12
H. F.	5
Loco Firebox	31
Vertical	58
Return Tubular	3
Lancashire	1
Total	135

Three H. F. boilers were discarded upon the expiration of inspection certificate owing to age and condition, 13 more were undergoing repairs and 6 were condemned.

The office work generally has been very heavy during the year—interviewing applicants, answering correspondence, and attending to the immediate requirements of a large number of contractors has kept me busy a great deal of the time; in fact, this work is steadily increasing and demands almost the whole of my time, consequently, with but a few exceptions, I have been unable to visit work lying outside the city.

My assistant, by means of the automobile supplied us last spring, has been able to cover a large portion of this district, though there still remain parts not visited, and taking into consideration the large increase in the number of stationary plants installed, others under course of erection, together with a very considerable number of new steam outfits shipped in by farmers and contracting firms during the year, more assistance will be necessary in order to satisfactorily cover the whole district. Neither my assistant or myself have taken any holidays owing to pressure of work.

Two accidents were reported to me during the year, one on a steam header, the other a fly-wheel rupture. Investigations into the cause of these revealed no evidence of negligence on the part of the parties concerned.

One conviction was secured for illegal operation, information laid and prosecution made under sub-clause 2 of section 18, The Boilers Act.

No fatalities or personal injuries of a serious or minor nature to report.

I have the honour to be, Sir,

Your obedient servant,

JOS. BUXTON,

Inspector of Steam Boilers.

CALGARY, January 14th, 1913.

JOHN STOCKS, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alta.

SIR,—I have the honour to submit my report as assistant inspector No. 2 district, Calgary, for the year ending December 31st, 1912, as required by section 8 of The Boilers Act.

I have inspected 336 boilers and issued certificates for 327, the balance of 9 boilers being out of service for the present season. Three were condemned owing to condition of construction and age, one having to go out of service at the time of inspection, the other two being permitted to operate at reduced pressure until the expiration of certificates in order to enable the owners to continue operating while preparing for new installation. In addition to the above, three boilers were ordered to be shipped out of the province on account of their not complying with the regulations.

The following shows the types of boilers examined and condition of same:

52 Horizontal Tubular.
9 Return Tubular.
220 Locomotive Firebox.
54 Vertical.
1 Water Tube.

Condition: Good, 118; very fair, 179; fair, 37; condemned 3; to be shipped out, 2.

Three special inspection trips were made at the request of owners, expenses, etc., being collected for same.

In February, during the time Mr. Buxton was attending the annual conference of the inspectors at Edmonton, I held the regular monthly examination of candidates in Calgary and recommended the issue of 1 heating, 8 provisional and 10 third class certificates. One candidate failed to pass.

During the year I also recommended the issuing of two renewals of provisional certificates, one provisional certificate and two heating certificates.

The automobile provided for this department has been of great service, enabling some of the scattered outfits to be visited for the first time in three years. A larger portion of the district has been visited than would have been possible by the use of steam. From the latter part of May to the end of the year auto mileage aggregates 4,895 miles.

Public opinion in connection with the visit of the boiler inspector has, in my experience, undergone a change, such visit being now generally appreciated, which indicates that the supervision of boilers and advice given to steam users is having a good effect, more especially so in the case of owners having long experience in the operation of boilers.

Two convictions were secured for illegal operation during the year.

I have the honour to be,

Your obedient servant,

E. S. HODGES,

Assistant Inspector of Boilers.

RED DEER, January 4th, 1913.

JOHN STOCKS, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alta.

SIR,—I have the honour to submit to you the following report of the work done in this district under The Boilers Act for the year 1912, in compliance with section 8 of the Act.

On returning from my vacation I reported at Edmonton for instructions, after which I left for Red Deer and started out immediately to preside at the engineer's examinations which had been previously advertised for this district; these completed, I continued the work of inspection, returning to headquarters on the first Saturday of each month for the purpose of conducting the regular monthly examinations of candidates for engineer's certificates.

During the year I inspected most of the boilers in the western, northern and eastern parts of my district, but was not able to visit all the boilers in these parts, owing to the very great increase in the number shipped in during the year.

Continued satisfaction with the new boilers built to Alberta regulations and equipped with approved fittings is found amongst the owners and users.

The following tables give the number and condition of boilers inspected by me:

Boilers inspected and certificate issued	240
Boilers inspected and certificate issued, sec. 5, sub-sec. 3	1
Boilers inspected, shut down for repairs, certificate issued.....	6
Boilers inspected, shut down for repairs	5
Boilers inspected, no certificate issued, boiler not been used....	1
Boilers inspected, condemned	5
Total number of boilers inspected	258

The boilers for which certificates of inspection were issued are rated as follows: Good, 189; very fair, 46; fair, 12. Total, 247.

The several types of boilers inspected are enumerated as follows:

Locomotive Firebox	181
Horizontal Tubular	40
Vertical Tubular	17
Return Tubular	13
Internal Furnace Tubular	6
Water Tube	1
Total	258

Sixteen advertised examinations for engineers were held in this district during the year, together with the regular monthly examinations at headquarters, excepting the months of January, February and March.

The following is a summary of the candidates examined for final certificates and the results:

GRADE	Passed	Failed and given second Prov.	Failed and given Prov.	Failed
Traction and Portable	47	34	0	0
Creamery	5	0	1	0
Third Class	6	0	1	2
Second Class	2	0	0	2

Total Candidates examined, 100.

The following is a list of the applicants for provisional certificates:

Examined and granted provisional certificate, good	21
Examined and granted provisional certificate, very fair.....	51
Examined and granted provisional certificate, fair	40
Examined and granted provisional certificate, poor	7
Not examined, granted under section 45	4
Total provisional certificates issued	123
Examined for provisional and failed	15
Turned down for lack of experience	36
Total applicants	174

I have recommended the renewal of the following provisional certificates:

Traction and Portable	30
Stationary	1

Twenty-six permits have been issued under section 34, a larger number than in any previous year for this district, there being more demand than ever for engineers during the threshing season, and I was compelled to issue these permits in order to prevent the work being retarded.

During the year I recommended the suspension of one final certificate for a period of six months, the holder thereof having, in my opinion, caused damage to a steam plant by his careless operation. I also refused to recommend renewal of certificates for the holders of nine expired provisional certificates, or allow them to sit for a higher certificate, this for careless operation, incompetency and insobriety which had been reported to me by the owners of the damaged boilers.

Considerable illegal operation of boilers has been carried on this year by men of the transient class who were employed in some instances by owners who neglected to ask these men to produce their engineer's certificate, and as a consequence of this, damage to plants has been the result. Several boilers have also been damaged through careless operation by men holding provisional certificates. Nine of these men have been prevented from further operation, as mentioned above. In matters of this kind it is almost impossible to get the owners to lay information according to section 50. They simply discharge the man from their employ and make no report either to the inspector or the department.

One person was prosecuted during the year for infringement of sub-section 3, section 32, of The Boilers Act.

No accidents of a serious nature have been reported to me as the result of defective boilers or the connections thereto in this district.

I have the honour to be, Sir,

Your obedient servant,

W. D. WATSON,

Boiler Inspector.

EDMONTON, January 1st, 1913.

JOHN STOCKS, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alta.

SIR,—I have the honour to submit the following report in connection with inspection of boilers in district No. 4 for the year 1912, in accordance with section 8 of The Boilers Act.

The inspectors' annual meeting convened in January and continued in session until February 14th, for the purposes of transacting the usual business for which this meeting is called.

On March 2nd I commenced to hold the series of advertised spring examinations, beginning at Strathcona and continuing at 17 other points in the district, finishing the last of these in Hourston's Hall at Edmonton on April 1st. At these examinations, together with those held in the Orange Hall, Strathcona, on the first Saturday of each month during the year, 363 candidates were examined for final and provisional certificates, divided as follows:

For first class engineer's certificate	4
For second class engineer's certificate	23
For third class engineer's certificate	108
For traction final engineer's certificate	51
For provisional engineer's certificate	169
For renewal of provisional certificate	8
Total	363

Forty-four permits were also issued for the operation of plants where it was impossible at the time to secure the services of a duly qualified engineer. These permits were issued under the provision of section 34 of The Boilers Act.

The demand for engineers holding second-class certificates still continues to be greater than the supply, a condition of things hard to meet unless those who are at present holding "thirds" show more desire to better their positions in the future than they have done in the past.

The threshing season revealed the fact that in some parts of the district there was a scarcity of traction engineers, consequent upon the large increase in the areas of farm lands brought under cultivation necessitating an increase in the number of threshing outfits, and notwithstanding the fact that many gasoline tractors have been shipped into

the district, meeting with more success than heretofore, both as plowing and threshing engines, the steam tractor still continues to be the more popular factor for such purposes, especially where fuel and water are reasonably available.

An ever increasing number of personal inquiries from newcomers to the province, together with answering letters and attending to "trouble calls" received from firms in town requiring immediate service, demand a very large portion of time which otherwise could be devoted to inspections.

Since completing the spring examinations in April, my work has been principally confined to the city or its immediate vicinity, Assistant Inspector Poole taking the outlying districts north and east, going as far north as Athabasca Landing, and east to the boundary of the province.

Following is a list of the different types of boilers inspected by me:

Locomotive type	47
Horizontal Tubular	34
Return Tubular	3
Vertical	44
Internal Furnace	6
Water Tube	12

Total 146

Condition of above: Good, 102; fair, 42; poor, 2.

I have no accidents of a serious or minor nature to report in connection with the operation of steam boilers and engines.

One provisional certificate was cancelled for incompetency on the part of the holder.

There were four prosecutions in the district for illegal operation, the minimum penalty being imposed in each case.

I am, Sir,

Your obedient servant,

DAVID FRASER,

Inspector of Boilers.

EDMONTON, January 14th, 1913.

JOHN STOCKS, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alta.

SIR,—I have the honour to submit to you the following report for the year ending December 31st, 1912, in accordance with section 8 of The Boilers Act.

At the commencement of the year I started out from Edmonton and inspected all the boilers along the route of the Grand Trunk Pacific Railway, west as far as mileage 92. These completed, I went north to

Athabasca Landing, working forty miles west, then followed the trail east and north to Lac la Biche, inspecting all the boilers which could be found in this section of the province. From Lac la Biche to Boyne and Saddle Lake, thence to St. Paul de Metis, and from there to Frog Lake.

I found a very large number of boilers scattered through this part of the country, mostly new ones built to approved designs from Alberta regulations.

Continuing south I crossed the river, travelling as far as Chauvin on the Grand Trunk Pacific, taking in a strip of country 15 miles wide with the object of inspecting every boiler known to be operating in this part of the district, finishing the year's work at Holden during the latter part of December.

Engineers were found to be very scarce in many parts of the district visited. This will account for my having to issue 27 permits under section 34 of The Boilers Act.

Total number of boilers inspected and certificates issued therefor, 221.

Following is a list of the different types of boilers inspected:

Horizontal Tubular	39
Locomotive	118
Robb Mumford	4
Vertical	46
Water Tube	4
Robb Brady	1
Return Flue	9
Total	221

I have no accidents of a serious or minor nature to report.

Your obedient servant,

F. P. POOLE,

Assistant Inspector of Boilers.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
First Class			
Archibald, Harry P.	Lethbridge	*24	Aug. 15, 1900
Altham, Geo. H.	Lethbridge	23	Apr. 8, 1908
Aitken, Robert C.	Edmonton	15	June 29, 1907
Alexander, Harry G.	Edmonton	43	Apr. 13, 1907
Brlsette, Narcisse	Morinville	*15	Mar. 28, 1889
Buxton, Jos.	Calgary	*35	Aug. 29, 1901
Birkett, Holland G.	Cardston	9	Sept. 5, 1906
Briggs, Thos. L.	Calgary	10	Sept. 27, 1906
Birrell, Andrew D.	Nanton	26	Aug. 28, 1908
Banks, Henry H.	Macleod	31	Dec. 14, 1908
Broughton, John Wm.	Red Deer	34	Mar. 17, 1909
Bailey, Hy. Chas.	Edmonton	50	Feb. 11, 1911
Blackburn, Robt. Neale	Edmonton	57	Feb. 10, 1912
Cross, Wm.	Calgary	*2	Mar. 28, 1899
Cooper, Watt	Canmore	6	Aug. 11, 1906
Caldwell, Robt.	Edmonton	*41	Oct. 16, 1903
Cross, Isaac E.	Ponoka	*47	Oct. 15, 1904
Cope, Cuthbert E.	Edmonton	24	Apr. 22, 1908
Christie, Alex'r G.	Exshaw	19	Jan. 20, 1908
Collard, Albert N.	Moose Jaw	21	Mar. 26, 1908
Carruthers, J. A.	Calgary	51	May 26, 1911
Cunningham, Wm. J.	Calgary	62	Apr. 26, 1912
Cooke, Robt. Pears	Edmonton	66	June 21, 1912
Davidson, James	Edmonton	38	Sept. 13, 1909
Davey, Edward	Medicine Hat	44	Apr. 25, 1910
Defieux, Chas. Albert	Edmonton	65	June 17, 1912
Dick, Archibald	Lethbridge	64	May 18, 1912
Evans, Dan	Edmonton	*12	Mar. 28, 1899
Ewing, David	Strathcona	36	May 3, 1909
Edwards, Wm.	Lethbridge	48	Nov. 7, 1910
Fraser, David	Strathcona	*20	Oct. 9, 1899
Finch, Theo. S.	Raymond	5	Aug. 10, 1906
Gale, Ernest A.	Calgary (dup.)	29	Dec. 11, 1908
Goellnlight, Leonard E.	Hillcrest	40	Mar. 30, 1910
Gray, Adam S.	Calgary	45	Apr. 29, 1910
Gray, Wm. G.	Lethbrldge	60	Mar. 14, 1912
Griffiths, Alf. J.	Macleod	68	Dec. 17, 1912
Hindsmarsh, Wm.	Calgary	41	Apr. 11, 1910
Hubbard, Sydney T.	Edmonton	*46	Apr. 18, 1904
Helst, Wm. E.	Edmonton	*36	Dec. 18, 1901
Hobson, Francis W.	Strathcona	*50	Apr. 1, 1905
Hill, John	Edmonton	25	June 25, 1908
Hargreaves, Thos. J.	Hillcrest	55	Sept. 3, 1911
Higgins, Alex.	Lethbridge	59	Mar. 14, 1912
Isaac, Wm.	Calgary	14	June 20, 1907
Jackson, John A.	Strathcona	*25	Oct. 23, 1900
Jones, Herbert W.	Bellevue	30	Dec. 11, 1908
Kelly, John	Edmonton (no record)..		Dec. 3, 1905
Kearsley, Geo.	Edmonton	8	Sept. 5, 1906
Lunn, John T.	Edmonton	*53	May 26, 1905
Moore, Geo.	Frank	*55	July 21, 1905
Marshall, Jas. Wm.	Calgary	20	Jan. 20, 1908

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
First Class—Continued			
Marshall, Nathaniel	Edmonton	32	Feb. 7, 1908
McCall, Jas. F.	Calgary	7	Aug. 11, 1906
McFee, Norman	Red Willow	*48	Nov. 22, 1904
McClymont, Jas. D.	Edmonton	27	Sept. 18, 1908
McNaughton, Peter	Edmonton	*21	Oct. 9, 1899
McMillan, Hugh A.	Edmonton	47	Oct. 22, 1910
Mudie, Alf. H.	Diamond City	54	Aug. 24, 1911
Mainwaring, John H.	Edmonton	58	Feb. 23, 1912
McMahon, William	Taber	67	Dec. 17, 1912
Niven, Robt.	Lethbridge	*23	July 28, 1900
O'Donnell, John E.	Edmonton	37	July 5, 1909
Oliver, Ernest H.	Calgary	2	Apr. 30, 1906
Ritchie, Wm. Jas.	Canmore	4	May 15, 1906
Rice, John H.	Calgary	1	Apr. 30, 1906
Reid, Arthur	Lethbridge (dup.)	39	Jan. 22, 1910
Richardson, Matthew C.	Kipp	56	Nov. 17, 1911
Scott, John	Lethbridge	*14	Mar. 28, 1899
Stapely, Tobias B.	Edmonton	*45	Apr. 18, 1904
Stafford, David G.	Coleman	35	Mar. 30, 1909
Scott, James	Lillie	22	Apr. 7, 1908
Scott, Robert	Calgary	42	Apr. 11, 1910
Simpson, William	Coleman	52	June 20, 1911
Searie, William	Coal City	53	July 13, 1911
Strom, Theodore	Calgary	63	Apr. 30, 1912
Turgeon, Cleophas.	Edmonton	*5	Mar. 28, 1899
Taylor, Geo. R.	Strathcona	*11	Mar. 28, 1899
Turner, Ornelo H.	Calgary	*34	July, 1901
Tanner, Harry P.	Taber	18	Dec. 26, 1907
Todd, Wm.	Edmonton	33	Mar. 4, 1909
Tames, Edward	Edmonton	61	Apr. 25, 1912
Verdon, Jos. B.	Calgary	49	Nov. 13, 1910
Watson, Wm. D.	Bankhead	3	May, 15, 1906
Watson, John T.	Calgary	13	June 7, 1907
White, E. Lionel	Calgary	12	Apr. 6, 1907
Watson, Jas. S.	Bankhead	46	Sept. 23, 1910
Second Class			
Anderson, C. J. B.	Calgary	*109	Feb. 7, 1901
Angus, Robert	Angus Ridge	*160	Oct. 2, 1901
Aiderson, Robt.	Coleman	126	Apr. 22, 1908
Adair, Fred D.	Edmonton	30	May 10, 1906
Ailworth E. Mortimer	Okotoks	81	June 19, 1907
Anderson, Andrew	Calgary	208	Aug. 15, 1910
Aitken, David	Lethbridge	212	Sept. 12, 1910
Antrobus, Wm.	Edmonton	260	Nov. 17, 1911
Brisette, Louis	Morinville	193	Apr. 13, 1910
Bradden, Wm. T.	Strathcona	194	Apr. 13, 1910
Biamont, Antonio	Edmonton	329	Nov. 23, 1912
Brice, Henry B.	Calgary	207	Aug. 8, 1910
Bawtinheimer, Geo. H.	Red Deer	*7	Sept. 4, 1899
Biery, Chas.	Strathcona	*32	Mar. 9, 1900
Blatchford, K. A.	Edmonton	*88	Oct. 23, 1900
Blain, J. W.	Strathcona	*106	Dec. 31, 1900
Bannerman, Jas. A.	Red Deer	*162	Dec. 18, 1901

*Indicates Certificate was granted by North-West Territories.

DEPARTMENT OF PUBLIC WORKS

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued			
Brownlow, Hy. A.	Lacombe	*163	Dec. 23, 1903
Brewster, W. A.	Edmonton	*195	May 13, 1903
Bowden, H. S.	Strathcona	*198	May 13, 1903
Ballantyne, Robt.	Calgary	*229	Mar. 14, 1904
Barnhouse, Wm.	Edmonton	*244	May 26, 1904
Burkholder, Hy. J.	Strathcona	*267	Oct. 15, 1904
Beamish, Crandell	Didsbury	118	Apr. 22, 1908
Bentley, Emerson D.	Medicine Hat	17	Apr. 11, 1906
Burger, M. E.	Strathcona	2	Sept. 18, 1905
Baird, Jas. B.	Red Deer	116	Apr. 14, 1908
Bryson, Wm. J.	Medicine Hat	178	Dec. 4, 1909
Blair, Wm.	Lille	25	Apr. 30, 1906
Berry, Stephen	Taber	127	Apr. 22, 1908
Brill, Geo.	Red Deer	161	Aug. 24, 1909
Brown, David	Calgary	75	May 4, 1907
Bruce, Geo.	Lethbridge	114	Apr. 8, 1908
Bagley, Wm. S.	Edmonton	156	June 18, 1909
Broadwell, Amos	Pincher Creek	170	Sept. 24, 1909
Bailey, Douglas A.	Calgary	173	Oct. 22, 1909
Brenton, Chas. J.	Edmonton	234	Apr. 1, 1911
Bratz, Emil	Pincher Creek	272	Dec. 19, 1911
Brown, Robt.	Lundbreck	261	Nov. 17, 1911
Brooks, Fred	Edmonton	259	Nov. 10, 1911
Bailey, W. Edgar	Lethbridge	273	Dec. 19, 1911
Baron, Harry	Diamond City	283	Feb. 26, 1912
Bodard, Alcide	Edmonton	312	Aug. 12, 1912
Beyer, Otto R.	Diamond City	296	May 18, 1912
Benson, Frank H.	Edmonton	315	Aug. 22, 1912
Beadle, Eikanah Wm.	Edmonton	320	Sept. 25, 1912
Cope, Edmund, G. M.	Lethbridge	*1	June 30, 1899
Clark, W. Harold	Edmonton	*15	Oct. 9, 1899
Conn, David	Lethbridge (dup.)	181	Jan. 19, 1910
Chalmers, Walter N.	Edmonton	*51	May 28, 1900
Cullen, Jas. E.	Calgary	*115	Feb. 20, 1901
Converse, Stephen J.	Ponoka	*192	Mar. 6, 1903
Clifford, Robt. A.	Strathcona	*197	May 13, 1903
Chapman, A. B.	Red Deer	*239	Apr. 18, 1904
Callery, Fredk.	Calgary (dup.)	150	Nov. 10, 1908
Coggan, Frank D.	Calgary	72	June 3, 1907
Cousins, Arthur	Calgary	24	Apr. 30, 1906
Crawford, Samuel L.	Strathcona	52	Oct. 25, 1906
Card, Caleb A.	Red Deer	53	Nov. 2, 1906
Currie, Jas. J.	Calgary	110	Mar. 23, 1908
Caldwell, Theophilus	Calgary	105	Jan. 20, 1908
Cranston, Adam	Calgary	55	Jan. 22, 1907
Clinton, Otto M.	Edmonton	79	June 14, 1907
Collins, Fred M.	Frank	88	July 16, 1907
Campbell, Mal. L.	Earlsville	96	Oct. 28, 1907
Cowall, Cederic A.	Red Deer	100	Dec. 5, 1907
Calder, Hector J.	Calgary	112	Mar. 23, 1908
Carr, Alve B.	Edmonton (dup.)	203	June 2, 1910
Cutting, Chas.	Vermilion	130	May 7, 1908
Collard, Geo. Lewis	Medicine Hat	152	Jan. 18, 1909
Croft, Wm.	Strathcona	174	Oct. 27, 1909
Carpenter, Wilfred	Frank	188	Mar. 25, 1910
Cruikshanks, Geo.	Lethbridge	185	Mar. 15, 1910
Commeayne, Florent	Edmonton	300	May 29, 1912
Candlish, William	N. Edmonton	281	Feb. 23, 1912
Craig, Hugh S.	Calgary	321	Sept. 28, 1912

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued			
Dozey, Chas.	Frank	218	Sept. 16, 1910
Duncombe, Walter	Taber	217	Sept. 16, 1910
Donaldson, Maxwell	Lethbridge (dup.)	182	Jan. 19, 1910
Doughty, Jas.	Calgary	*143	July 25, 1901
Dresser, Bertram W.	Wetaskiwin	*261	Oct. 15, 1904
Drader, John A.	Pincher Creek	*290	Dec. 30, 1904
Dean, David	Calgary	*298	Mar. 16, 1905
Drees, Max L.	Edmonton (dup.)	*269	Nov. 30, 1905
Danner, Clifford	Lacombe	22	Apr. 25, 1906
Duncan, Andrew, sr.	Edmonton	129	May 7, 1908
Dick, Wm.	High River	57	Jan. 14, 1907
Duncan, Andrew, jr.	Edmonton	139	Sept. 18, 1908
Dunbar, Hy. C.	Edmonton	123	Apr. 22, 1908
Donaldson, Samuel	Lethbridge	164	Sept. 15, 1909
Dodd, Jas.	Edmonton	157	July 5, 1909
Daley, Wm.	Strathcona	163	Aug. 27, 1909
Dowsett, Nathaniel	Frank	228	Mar. 7, 1911
Davies, Samuel	Elcan	274	Dec. 19, 1911
Donnelly, Jas.	Bellevue	278	Jan. 16, 1912
Davidson, Eric	Calgary	298	May 22, 1912
Downing, Augustus	Calgary	292	Apr. 26, 1912
Douglas, John H. W.	Red Deer	331	Dec. 17, 1912
Evans, Hy. W.	Anthracite	*28	Feb. 13, 1900
Emery, Ray C.	Strathcona	*264	Oct. 15, 1904
Evans, Wm.	Frank	7	Sept. 18, 1905
Eby, Josiah S.	Didsbury	95	Oct. 24, 1907
Evans, Geo. A.	Raymond	209	Aug. 30, 1910
Edmonds, Thos. J.	Edmonton	231	Mar. 20, 1911
Elderkin, Wm. J.	Calgary	248	Aug. 22, 1911
Eldridge, Jas. Thomas	Passburg	285	Mar. 19, 1912
Frieman, Manfred	Lethbridge	234	Nov. 4, 1912
Finch, Robt. H.	Calgary	*184	Oct. 10, 1902
Fraser, Wm.	Strathcona	*265	Oct. 18, 1904
Frame, Jas. F.	Lethbridge	*219	Oct. 6, 1903
Fraser, Chas.	Okotoks	*300	Mar. 16, 1905
Fidler, J. J.	Calgary (dup.)	135	Aug. 6, 1908
Fleetwood, Howard A.	Edmonton	*262	Oct. 15, 1904
Fisk, James Geo.	Fort Saskatchewan	*307	Apr. 14, 1905
Faulkner, Jos. W.	Lundbreck	42	Aug. 11, 1906
Flan, Jas. Robt.	Calgary	85	July 16, 1907
Foote, Wm.	Pincher Creek	87	July 16, 1907
Foster, John Thos.	Calgary	97	Nov. 14, 1907
Foster, Riley	Magrath	297	May 18, 1912
Ferguson, Llwellyn, W.	Strathcona	301	June 23, 1912
Fabian, Henry B.	Tofield	311	July 28, 1912
Grleve, David	Calgary	*111	Feb. 7, 1901
Griffiths, W. H.	Anthracite	31	May 14, 1906
Garneau, Alexr.	Strathcona	*266	Oct. 15, 1904
Grleve, Wm.	Calgary	*276	Oct. 23, 1904
Gibbs, Morley C.	Calgary	297	Mar. 16, 1905
Ginter, Wm. C.	Edmonton	18	Apr. 11, 1906
Garner, Anthony	Bankhead	33	May 14, 1906
Godson, Wm.	Bankhead	83	June 26, 1907
Good, Wm.	Calgary	134	Aug. 6, 1908
Goling, Philip S.	Mountain View	238	April 24, 1911
Graves, Jas. H.	Calgary	229	Mar. 7, 1911
Grant, Alex.	Calgary	250	Sept. 8, 1911
Galloway, Alex.	Medicine Hat	323	Oct. 17, 1912

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued			
Going, Ernest M.	Mountain View	290	Apr. 16, 1912
Gleaves, Geo. N.	Medicine Hat	314	Aug. 14, 1912
Gourley, Fred R.	Strathcona	316	Aug. 26, 1912
Hennegar, Ed. J.	Edmonton	*19	Oct. 2, 1899
Haines, Alfred H.	Edmonton	*33	May 7, 1900
Hillis, Hy.	Medicine Hat	*42	May 23, 1900
Hicklik, John W.	Calgary	*79	Sept. 29, 1900
Hiscon, Thos. S.	Lethbridge	*85	Sept. 29, 1900
Howell, Edward	Battleford	*137	May 30, 1901
Hillis, Thos.	Lethbridge	*172	Aug. 18, 1902
Henneg, Michael	Calgary	*183	Oct. 10, 1902
Heatley, Wm.	Baumont	*274	Oct. 4, 1904
Henry, Chas.	Strathcona	*234	Apr. 18, 1904
Hutchings, H. E.	Edmonton	*306	Mar. 31, 1905
Hackey, Thos. H.	Evarts	117	Apr. 14, 1908
Harper, Wm. H.	Lloydminster	10	Nov. 16, 1905
Heacock, Jas. H.	Calgary	71	June 3, 1907
Hay, Geo. Porter	Pincher Creek	44	Aug. 11, 1906
Howe, Wm. Ed.	Sunny Slope	49	Sept. 8, 1906
Hendry, Wm. A.	Edmonton	64	May 15, 1906
Harris, Samuel D.	Red Deer	62	May 7, 1907
Harris, V. H.	Red Deer	63	May 7, 1907
Hockin, John	Edmonton	91	Oct. 15, 1907
Hill, John	Strathcona	131	May 18, 1908
Hill, Marshall	Macleod	189	Mar. 21, 1910
Henry, Walter F.	Ponoka	224	Nov. 15, 1910
Hilton, Wm. H.	Taber	213	Sept. 12, 1910
Howard, Ernest E.	Conjuring Creek	201	June 1, 1910
Horn, James	Lethbridge	187	Mar. 15, 1910
Hodges, Elmer S.	Medicine Hat	198	Apr. 25, 1910
Holford, Jos. C.	Lac Ste. Anne	206	July 29, 1910
Henderson, Norman	Bellevue	230	Mar. 11, 1911
Hope, George	Royal View	286	Mar. 18, 1912
Holmes, Walter, C.	Calgary	282	Feb. 26, 1912
Irwin, Lester J.	Strathcona	*270	Oct. 15, 1904
Irving, Albert E.	Calgary	56	Jan. 22, 1907
Irvine, Alexr.	Calgary	165	Sept. 15, 1909
Ingills, George	Edmonton	266	Dec. 12, 1911
Judd, David H.	Calgary	*161	Oct. 5, 1901
Jarratt, Edward	Strathcona	*263	Oct. 15, 1903
Jackson, James O.	Inga	60	Apr. 8, 1907
Johnson, Pontus	Lewisville	235	Apr. 5, 1911
Jack, William	Bassano	246	June 30, 1911
Jacob, Arthur	Royal View	303	June 28, 1912
Kerr, Wm.	Lethbridge (dup.)	183	Jan. 19, 1910
Kidd, Fredk.	Calgary	*62	June 14, 1900
Kowalczyck, Antoine	St. Paul de Metis	*144	Feb. 16, 1900
Kadlec, J. J.	Wetasklwin	*236	Apr. 18, 1904
Killam, Robt. C.	Red Deer	65	May 20, 1907
Kelth, Edward C.	Lille	226	Dec. 8, 1910
Krammer, Frank	Calgary	293	May 1, 1912
Livingstone, Jas. C.	Lethbridge	214	Sept. 12, 1910
Lang, Jas.	Okotoks	*301	Mar. 17, 1905
Lacey, Wm. R.	Calgary	*182	Oct. 10, 1902
Lamb, Herb. David	Frank	41	Aug. 11, 1906
LeBreton, Gustav A.	Edmonton	*308	Apr. 14, 1905
Long, John	Okotoks	45	Oct. 11, 1906

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued			
Laut, John R.	Crossfield	153	Apr. 6, 1909
LaVoi, Frank P.	Calgary	111	Mar. 23, 1908
Lavelle, Patrick	Exshaw	149	Oct. 30, 1908
Lewis, John H.	Lethbridge	166	Sept. 15, 1909
Langstroth, Alf.	Calgary	240	May 5, 1911
Lord, Victor H.	Diamond City	244	May 26, 1911
Letcher, Richard	Hillcrest	255	Oct. 24, 1911
Libby, Malcolm M.	Edmonton	271	Dec. 15, 1911
Laundy, Harry	Edmonton	325	Nov. 6, 1912
Moran, Austin	Lethbridge	*36	Mar. 23, 1900
Marshall, Fred, Jos.	Kamloops, B. C.	*203	Aug. 14, 1902
Morrison, John C.	Gleichen	*214	Sept. 24, 1903
Mortimer, Samuel M.	Strathcona	*241	May 26, 1904
Murray, Robinson	Calgary	104	Jan. 20, 1908
Merres, Horace	Red Deer	93	Oct. 22, 1907
Mjolness, John A.	Medicine Hat	16	Apr. 11, 1906
Mauland, Jack	Bankhead	99	Dec. 5, 1907
Morrison, Kenneth	Coleman	20	Apr. 19, 1906
Mair, Robt. B.	Strathcona	37	Aug. 8, 1906
Morgan, Thos. M.	High River	38	Aug. 7, 1906
Moore, Wm. A.	Red Deer	137	Aug. 13, 1908
Mueller, Karl F.	Lethbridge	147	Oct. 6, 1908
McKay, Daniel	Lethbridge	*4	June 30, 1899
McGee, Thos.	White Fish Lake (dup.)	113	Mar. 28, 1908
McConnell, Wm. J.	Lethbridge	*	Oct. 8, 1903
McIntyre, John	Calgary (dup.)	48	Aug. 16, 1906
McKim, Nelson	Edmonton	14	Mar. 26, 1906
McClafin, W. G.	Ponoka	*237	Apr. 18, 1904
McCardia, Samuel	Edmonton	78	June 14, 1907
McLean, Fredk. A.	Edmonton	*305	Mar. 31, 1905
McNelly, S.	Okotoks	107	Mar. 23, 1908
McDonald, Simon	Frank	15	Mar. 28, 1906
McDonald, E. R.	Edmonton	120	Apr. 22, 1908
MacDonald, Alex.	Edmonton	119	Apr. 22, 1908
McDonald, John D.	Hillcrest	61	Apr. 18, 1907
McNeill, Neil S.	Calgary	68	May 23, 1909
McKinnon, Alex. J.	Lille	82	June 20, 1907
McIntyre, Jos.	Taber	84	July 8, 1907
McGregor, John	Hillcrest	90	Sept. 26, 1907
McNichol, John	Exshaw	103	Jan. 3, 1908
McFayden, John C.	Edmonton	124	Apr. 22, 1908
McIndoe, Wm.	Calgary	136	Aug. 6, 1908
McDonald, John	Lille	172	Oct. 5, 1909
McNair, Arod N.	Lethbridge	175	Nov. 13, 1909
McIvor, Wm. K.	Edmonton	196	Apr. 13, 1910
McAffer, Ronald	Medicine Hat	221	Sept. 24, 1910
McCauley, James	Edmonton	264	Nov. 30, 1911
McKenzie, Norman	Calgary	242	May 20, 1911
McKenzie, Harvey K.	Lethbridge	275	Dec. 19, 1911
McLeod, Herdman	Coleman	302	June 28, 1912
McDonald, John A.	Calgary	327	Nov. 13, 1912
McAulay, Gus Wallace	Coleman	326	Nov. 13, 1912
Munro, Claud	Lethbridge	317	Sept. 17, 1912
Morton, Wm. Johnston	Edmonton	308	June 28, 1912
Nimmmons, Robt.	Lethbridge	*38	Mar. 23, 1900
Nicholson, Robt. John	Edmonton	67	Mar. 20, 1907
Nuttall, Reginald	Edmonton	291	April 25, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued			
Oxley, John	Taber	6	Sept. 18, 1905
Olson, Harold, P. T.	Calgary	276	Dec. 28, 1911
O'Neil, Edward T.	Edmonton	319	Sept. 20, 1912
Parcels, Timothy E.	Red Deer	6	Sept. 4, 1899
Payzant, Ernest M.	Edmonton	*12	Oct. 9, 1899
Pratt, Geo.	Edmonton	*16	Oct. 9, 1899
Pearce, Abra.	Edmonton	*52	May 28, 1904
Pugh, John	Calgary	28	April 30, 1906
Powers, Thos. E.	Strathcona	*246	May 26, 1904
Potter, Martin	Evarts	51	Oct. 5, 1906
Punnett, Lewis, L.	Chesterwold	50	Oct. 4, 1906
Pallot, Herbert J.	Edmonton	144	Sept. 28, 1908
Payzant, H. C.	Edmonton	121	Apr. 22, 1908
Price, John	Edmonton	54	Dec. 19, 1906
Patterson, John M.	Okotoks	108	Mar. 23, 1908
Prince, John E.	Calgary	76	June 4, 1907
Purvis, John	Calgary	106	Feb. 15, 1908
Poole, Fred P.	Strathcona	132	July 9, 1908
Pollock, Daniel R.	Calgary	151	Dec. 2, 1908
Pearson, Augustus	Bellevue	210	Sept. 7, 1910
Potter, John	Calgary	184	Mar. 7, 1910
Pitts, Wm. S.	Edmonton	180	Jan. 10, 1910
Pallot, Harold E.	Edmonton	191	Apr. 6, 1910
Payne, Geo.	Lethbridge	223	Oct. 20, 1910
Petrie, Robt. F.	Elcan	219	Sept. 16, 1910
Patterson, Samuel F.	Granum	254	Oct. 18, 1911
Pollitt, Nicholas T.	Taber	247	July 13, 1911
Pearce, William C.	Edmonton	249	Aug. 24, 1911
Pollock, Frederick	Edmonton	253	Sept. 9, 1911
Palmer, John C.	Edmonton	262	Nov. 28, 1911
Peterson, J. Anderson	Edmonton	263	Nov. 29, 1911
Parken, Joseph	Carmen	288	Apr. 4, 1912
Parsons, Alfred J.	Royal City	318	Sept. 17, 1912
Reed, R. W.	Lethbridge	*5	June 30, 1899
Richards, Hy. John	Canmore	*30	Feb. 13, 1900
Rankin, Thos. Hy.	Banff	*77	Sept. 29, 1900
Roberts, Wm. B.	Fort Saskatchewan	*235	May 18, 1904
Ritchie, Wm. A.	Calgary	141	Sept. 22, 1908
Rich, John H.	Calgary	69	June 3, 1907
Reiton, Ole	Lethbridge	115	Apr. 8, 1908
Riddell, Arthur	Calgary	140	Sept. 22, 1908
Rice, Robt.	Calgary	222	Oct. 11, 1910
Richardson, Thos.	Calgary	220	Sept. 23, 1910
Ray, Arthur R.	Edmonton	199	May 11, 1910
Rennie, Thomas	Millet	265	Dec. 8, 1911
Ross, Dexter A.	Strathcona	306	June 28, 1912
Ryan, Harry	Frank	313	Aug. 12, 1912
Richardson, Ernest	Calgary	299	May 22, 1912
Schatz, Wm. H.	Strathcona	*17	Oct. 19, 1899
Shaw, M. W. S.	Mldnapore	*27	Dec. 1, 1899
Stafford, Geo.	Lethbridge	160	Aug. 20, 1909
Steven, Hutton	Calgary	*43	Apr. 17, 1900
Stagg, Geo.	Calgary	*112	Feb. 7, 1901
Steven, Alfred E.	Calgary	*113	Feb. 7, 1901
Shelley, Henry Jas.	Calgary	*116	Mar. 12, 1901
Sloan, Wm.	Lethbridge	*169	July 30, 1902
Siemens, Peter	Anthracite	34	May 14, 1906
Stewart, John A.	Red Deer	72	Jan. 2, 1906

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued			
Shannon, Jas.	Calgary.	*223	Nov. 6, 1903
Shackleton, Thos. A.	Kamloops.	*224	Nov. 14, 1903
Starkey, Geo. J.	Ponoka.	9	Nov. 2, 1905
Stokes, Robt. D.	Strathcona.	19	Apr. 11, 1906
Stacey, Fredk. H.	Edmonton.	1	Sept. 18, 1905
Shore, John P.	Edmonton.	3	Sept. 18, 1905
Slingsby, Sldney.	Calgary.	74	June 3, 1907
Stanley, Chas. H.	Bankhead.	32	May 14, 1906
Sefton, Fredk.	Lethbridge.	39	Aug. 10, 1906
Stanley, Benj. F.	Calgary.	47	Aug. 14, 1906
Syer, Thos. M.	Red Deer.	94	Oct. 22, 1907
Stockdale, Thos. D.	Lethbridge.	133	July 31, 1908
Simpson, Wm.	Coleman.	167	Sept. 18, 1909
Sparber, Chas. H.	Lethbridge.	177	Nov. 24, 1909
Searle, Wm.	Coal City.	179	Dec. 4, 1909
Simondson, Hy.	Northern.	197	Apr. 13, 1910
Smith, Fredk.	Coleman.	215	Sept. 12, 1910
Schaumleffel, Clifford C.	Lloydminster.	192	Apr. 6, 1910
Steven, John C. S.	Edmonton.	204	June 22, 1910
Smith, Wm. J.	Milk River.	225	Nov. 17, 1910
Scott, David S.	Coleman.	256	Oct. 24, 1911
Simpson, John T.	Coleman.	252	Sept. 8, 1911
Sinclair, Walter W. P.	Medicine Hat.	236	Apr. 12, 1911
Saunders, Michael J.	Cardliff.	267	Dec. 12, 1911
Seymour, Francis E.	Macleod.	257	Oct. 24, 1911
Stobbs, John.	Lethbridge.	251	Sept. 9, 1911
Sowerby, William N.	Taber.	258	Oct. 24, 1911
Stephenson, Jno. Leach.	Lethbridge.	239	Apr. 24, 1911
Stephenson, Harry.	Medicine Hat.	245	June 20, 1911
Singer, Wm. George.	Edmonton.	270	Dec. 12, 1911
Stirling, James.	Michel.	287	Mar. 18, 1912
Spargo, John.	Edmonton.	277	Jan. 12, 1912
Stratton Claude.	Edmonton.	310	July 22, 1912
Shaw, Thomas.	Edmonton.	295	May, 14, 1912
Tabacchi, Stephen.	Lethbridge.	186	Mar. 15, 1910
Toreson, Thos.	Wetaskiwin.	*31	Mar. 7, 1900
Thompkins, Peter.	White Fish Lake.	*98	Nov. 27, 1900
Tasker, Henry A.	Nanton.	148	Oct. 15, 1908
Taddrew, Henry P.	Edmonton.	29	May 10, 1906
Turner, Duncan.	Edmonton.	98	Nov. 26, 1907
Thorley, James.	Taber.	101	Dec. 26, 1907
Turner, Stephen F.	Taber.	102	Dec. 26, 1907
Terry, Frank A.	Strathcona.	171	Dec. 29, 1909
Taylor, Percy E.	Taber.	145	Oct. 6, 1908
Thompson, James.	Innisfail.	162	Aug. 24, 1909
Turner, Jas. Abbot.	Taber.	304	June 28, 1912
Thomas, David Rees.	Lethbridge.	328	Nov. 13, 1912
Taylor, Gilbert.	Edmonton.	280	Feb. 8, 1912
Von Wendel, Carl.	Calgary.	*222	Nov. 6, 1903
Van Haast, Julius H.	Strathcona.	*278	Nov. 5, 1904
Voss, Edwin E.	Fort Saskatchewan.	128	May 7, 1908
Vincent, Robt. G.	Blairmore.	155	May 26, 1909
Varden, Anthony L.	Edmonton.	158	July 5, 1909
Von Keekem, Barend J.	Medicine Hat.	237	Apr. 12, 1911
Vaughan, Wm. Lyle.	Calgary.	243	May 20, 1911
Varlow, Hy. John.	Edmonton.	268	Dec. 12, 1911
Walker, J. B.	Lethbridge.	*3	June 30, 1899
Watson, Ernest P.	Strathcona.	*18	Oct. 9, 1899

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Second Class—Continued			
White, Jas.	Cahmore	*73	Sept. 5, 1906
Websdale, Francis	Edmonton	*139	June 21, 1901
Waldock, John G.	Medicine Hat	*170	Aug. 18, 1902
Waddell, O. S.	Edmonton	*245	May 26, 1904
Wright, Geo. W.	Calgary	73	June 3, 1907
Wilcox, Jas. E.	Coleman	125	Apr. 22, 1908
Walburton, John	Spring Point	8	Sept. 18, 1905
Williams, John	Edmonton	23	Apr. 30, 1906
Willson, R. J.	High River	80	June 19, 1907
Webb, Jas. F.	Exshaw	143	Sept. 22, 1908
Walker, Thos.	Coleman	46	Aug. 14, 1906
Wilkinson, Robt.	Calgary	142	Sept. 22, 1908
Walker, Rolf A.	Edmonton	205	July 16, 1910
Warr, Percy J. H.	Lethbridge	227	Dec. 8, 1910
Winter, Archibald	Strathcona	202	June 1, 1910
Walton, John W.	Edmonton	233	Mar. 31, 1911
Willis, Robert I.	Edmonton	269	Dec. 12, 1911
Ward, John	Edmonton	330	Dec. 13, 1912
Wood, Jas.	Bellevue	279	Jan. 16, 1912
Will, Frank Silver	Edmonton	284	Mar. 14, 1912
Williams, Richard	Medicine Hat	289	Apr. 6, 1912
White, William	Lethbridge	305	June 28, 1912
Weir, John	Edmonton	307	June 28, 1912
Young, Geo.	Lille	43	Aug. 11, 1906
Zurlinder, John	Calgary	138	Sept. 14, 1908
Third Class			
Albertson, Andrew O.	Strathcona	*135	June 25, 1901
Alkman, Geo.	Calgary	*274	Sept. 11, 1902
Allan, Albert	Edmonton	*360	May 3, 1903
Allan, Arthur	Edmonton	*526	Apr. 18, 1904
Ashcroft, Joseph	Lethbridge	*673	Nov. 24, 1904
Akey, Chas. S.	Iowalta	*759	Mar. 24, 1905
Archibald, Chester H.	Wetaskiwin	*786	Mar. 27, 1905
Ambler, David	Wetaskiwin	*790	Mar. 27, 1905
Anderson, Andrew Wm.	Wetaskiwin	*794	Mar. 27, 1905
Adair, James E.	Edmonton	263	Apr. 18, 1907
Agar, Chas.	Edmonton	143	May 29, 1906
Adshead, Herb. B.	Olds	149	May 31, 1906
Anderson, John J.	Stavely	192	Aug. 13, 1906
Alexander, J. A.	Livingstone	203	Aug. 13, 1906
Abraham, W. R.	Lacombe	242	Sept. 28, 1906
Adams, David C.	Edmonton	207	Sept. 8, 1906
Auld, John	Edmonton	266	Apr. 30, 1907
Anderson, G. A.	Bowden	318	May 29, 1907
Anderson, Jas. J.	Crossfield	324	May 29, 1907
Anstett, Frank A.	Langdon	337	June 4, 1907
Andrews, W. H.	Stewartwyn	364	June 7, 1907
Adams, Chas. W.	Lacombe	367	June 7, 1907
Antrobus, Wm.	Edmonton	386	June 14, 1907
Anderson, Henry	Rosenroll	393	June 14, 1907
Anderson, Wm.	Killam	399	June 14, 1907
Anderson, Ed. A.	Heatherbrae	402	June 14, 1907
Ambler, Geo. D.	Wetaskiwin	411	June 14, 1907
Allan, Harrold	Calgary	563	Jan. 30, 1908
Amdhal, Theo. J.	Seven Persons	2172	Apr. 23, 1912
Archibald, Syl. C.	Ferry Bank	691	May 5, 1908
Alveberry, Fred S.	Wetaskiwin	699	May 7, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Atterbury, Chas. J.	Edmonton	733	Sept. 18, 1908
Asper, A.	Merna	782	Sept. 18, 1908
Ashcroft, John	Lethbridge	844	Oct. 6, 1908
Anderson, Altken, McK.	Calgary	811	Mar. 19, 1909
Adring, Tom	Lethbridge	898	Mar. 24, 1909
Atkins, Ralph P.	New Dayton	899	Mar. 24, 1909
Aveldson, August	Sunny Slope	906	Mar. 26, 1909
Annable, Bolton A.	Claresholm	965	Apr. 16, 1909
Anderson, Edward	Sterling	988	Apr. 20, 1909
Aldridge, Oliver	Cardston	1005	Apr. 25, 1909
Arrison, Orrin S.	Gleichen	1017	Apr. 28, 1909
Anderson, Orrie H.	Sterling	1109	Sept. 15, 1909
Adams, Daniel P.	Lacombe	1173	Oct. 13, 1909
Ashburner, Edward	Lethbridge	1214	Mar. 15, 1910
Alspach, Wm. L.	Stavely	1273	Mar. 29, 1910
Anderson, Alex.	Granum	1280	Mar. 30, 1910
Anderson, John H.	Round Hill	1283	Apr. 1, 1910
Atkins, C. C. L.	New Dayton	1356	Apr. 14, 1910
Anderson, Geo. H.	Barnwell	1367	Apr. 15, 1910
Aaring, Ben	Burdett	1377	Apr. 19, 1910
Allen, Ewart G.	Medicine Hat	2173	Apr. 23, 1912
Ansley, Harvey, R. B.	Medicine Hat	1390	Apr. 25, 1910
Allen, Richard	Lethbridge	1421	June 11, 1910
Aitken, Jas.	Lethbridge	2055	Mar. 13, 1912
Allan, Robt.	Calgary	1519	Sept. 23, 1910
Alger, Geo. V.	Medicine Hat	2174	Apr. 23, 1912
Ameson, Sigurd A.	Eagle Hill	1550	Oct. 1, 1910
Atkinson, Wm. E.	Claresholm	1641	Mar. 15, 1911
Atkinson, Louis E.	Claresholm	1642	Mar. 16, 1911
Arbuster, John	Stony Plain	1694	Mar. 31, 1911
Aitcheson, Geo.	Green Lawn	1695	Mar. 30, 1911
Ainsley, Wm. G.	Bashaw	1712	Apr. 5, 1911
Anderberg, Claus E.	Bassano	1849	June 13, 1911
Anderson, Victor	Granum	1874	July 13, 1911
Allen, Richard	New Dayton	1974	Oct. 24, 1911
		2418	Nov. 13, 1912
Atkinson, Thos.	Little Volga	1987	Nov. 10, 1911
Arm, William F.	Lethbridge	2032	Feb. 14, 1912
Anderson, Carl	Taber	2056	Mar. 13, 1912
Albert, Max	Berseker	2123	Apr. 4, 1912
Audland, Andrew	Carlstadt	2124	Apr. 4, 1912
Archamblo, Fred	Rosemead	2155	April 19, 1912
Allender, Loren L.	Lille	2242	May. 2, 1912
Albertson, P. L.	Edmonton	2327	July 16, 1912
Armstrong, Alex.	Red Deer	2396	Oct. 16, 1912
Blatchford, Peter	Edmonton	*37	Nov. 28, 1899
Bawltzheimer, H. E.	Red Deer	*185	Dec. 18, 1901
Billo, Jos.	Edmonton	*193	Dec. 18, 1901
Bernier, Alexis	Lamoureux	*205	Dec. 18, 1901
Berlinguette, Alfred	Whitford	*255	Aug. 18, 1902
Burwell, Arthur P.	Edmonton	*354	Apr. 24, 1903
Berg, John	Fort Saskatchewan	*356	May 13, 1903
Bolduc, Jos.	Beaumont	*362	May 13, 1903
Bowers, Richard J.	Strathcona	*364	May 13, 1903
Briggs, M. R.	Red Deer	*371	May 13, 1903
Bricker, Menno C.	Okotoks	*471	Nov. 6, 1903
Brown, Robert S.	Lamoureux	*480	Jan. 15, 1904
Burbank, Lyle A.	Calgary	*483	Feb. 10, 1904
Billow, Adolph	Canmore	*486	Mar. 14, 1904
Bailey, R. B.	Edmonton	*527	Apr. 18, 1904

*Indicates Certificate was granted by North-West Territories.

**SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—Continued.**

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Brenton, J. R.	Edmonton	*544	Apr. 18, 1904
Bolduc, Peter	Beaumont	*638	Oct. 15, 1904
Bevington, Geo. E.	Strathcona	*642	Oct. 15, 1904
Browne, Thos. J.	Medicine Hat	*83	Apr. 9, 1906
Brown, John, jr.	Innisfail	*757	Mar. 24, 1905
Bruce, Chas. R.	Lacombe	*761	Mar. 24, 1905
Blewett, Wm. G.	Mewassin	*818	Apr. 14, 1905
Bauchlin, Theophile	Legal	*214	Aug. 14, 1906
Brunelle, John	Beaumont	*821	Apr. 14, 1906
Brodie, Wm. A.	Ponoka	*848	May 30, 1905
Blanchette, Peter	Fort Saskatchewan	257	Dec. 28, 1906
Bradbeer, Edwd.	Lethbridge	14	Sept. 16, 1905
Bilson, Wm. Jas.	Lethbridge	16	Sept. 16, 1905
Baker, Chas. L.	East Clover Bar	27	Sept. 16, 1905
Blittner, Anton	Ponoka	56	Nov. 11, 1905
Bell, Harry	Daugh	71	Mar. 16, 1906
Baker, Thos.	Calgary	72	Mar. 19, 1906
Boote, Edwd.	Pine Lake	107	Apr. 24, 1906
Godman, John A.	Calgary	885	Mar. 18, 1909
Bartlett, Percy R.	Edmonton	142	May 29, 1906
Burns, David	Grassy Lake	170	Aug. 11, 1906
Baden, Wm. F.	High River	196	Aug. 13, 1906
Benz, August J.	Mundare	216	Sept. 13, 1906
Bates, Minor	Strathcona	2357	July 19, 1912
Brown, A. J.	Wavy Lake	232	Sept. 21, 1906
Bucher, L. W.	Wetaskiwin	273	May 15, 1907
Berg, John P.	Wetaskiwin	280	May 15, 1907
Barr, Ralph	Edmonton	286	May 15, 1907
Beggs, John	Innisfail	295	May 20, 1907
Buckton, Henry J.	Olds	302	May 23, 1907
Bugton, Ole G.	Harmattan	304	May 23, 1907
Bergen, Jacob	Didsbury	319	May 29, 1907
Bush, Frank C.	Didsbury	323	May 29, 1907
Barker, Wm. L.	Calgary	343	June 4, 1907
Brotherston, Robt. A.	Calgary	345	June 4, 1907
Barnes, Wm. J.	Calgary	346	June 4, 1907
Brown, Wilfred B.	Calgary	359	June 4, 1907
Bush, Henry	Blackfalds	366	June 7, 1907
Brereton, Thos. A.	Valley City	376	June 7, 1907
Brown, Wm. H.	Edmonton	385	June 14, 1907
Berry, Robt. G.	Fort Saskatchewan	392	June 14, 1907
Bradbury, Arthur T.	Edberg	398	June 14, 1907
Batke, Albert L.	Ferry Point	417	June 14, 1907
Bucker, Walter L.	Mossleigh	424	June 19, 1907
Brower, Archd. B.	Pincher Creek	928	Apr. 1, 1909
Black, Robt.	Strathcona	479	July 24, 1907
Boomer, Marshall	Blackfalds	481	July 27, 1907
Bowman, Albert	Strathcona	485	Aug. 28, 1907
Brickman, Jos. T.	Pembina	495	Oct. 15, 1907
Bell, Wm. G.	Red Deer	515	Oct. 22, 1907
Bergen, Henry	Didsbury	527	Oct. 24, 1907
Burchnall, Frank N.	Bluff Centre	543	Oct. 28, 1907
Bawlaugh, John J.	Calgary	559	Jan. 20, 1908
Burwell, Wm.	Gladys	569	Mar. 23, 1908
Blair, Geo. R.	Claresholm	570	Mar. 23, 1908
Base, John L.	Reld Hill	572	Mar. 23, 1908
Bell, Wm. F.	High River	573	Mar. 23, 1908
Blackorby, W. G.	Claresholm	575	Mar. 23, 1908
Bowerman, Cliff	Cowley	599	Apr. 8, 1908
Banfield, J. Frank	Lethbridge	626	Apr. 9, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Bryant, Percy B.	Lethbridge	627	Apr. 9, 1908
Brown, John	Evarts	635	Apr. 14, 1908
Beckett, Waitland J.	Red Deer	636	Apr. 14, 1908
Brubaker, Albert J.	Medicine Hat	1376	Apr. 18, 1910
Burke, Benj. S.	Lacombe	693	May 6, 1908
Bader, Benj. H.	Lethbridge	704	May 14, 1908
Bateman, Ewart W.	Lethbridge	744	Aug. 6, 1908
Baxter, John	Red Deer	751	Sept. 8, 1908
Blacklock, Robt. O.	Westward Ho	754	Sept. 8, 1908
Butts, John H.	Olds	755	Sept. 8, 1908
Brooke, Fredk. C.	Olds	759	Sept. 11, 1908
Ball, Arthur	Mayville	767	Sept. 14, 1908
Burns, Wm.	Higgins	768	Sept. 14, 1908
Bowick, Chas. C.	Tofield	810	Sept. 28, 1908
Bowick, John D.	Tofield	811	Sept. 28, 1908
Brown, John	Kitscoty	812	Sept. 28, 1908
Brainard, Jerome W.	Nanton	824	Oct. 2, 1908
Bowler, Thos. H.	Macleod	845	Oct. 6, 1908
Benjamin, Albert	Morinville	862	Oct. 20, 1908
Bucknam, Artliff V.	Bucknam	869	Nov. 23, 1908
Brenton, Chas. J.	Edmonton	871	Dec. 23, 1908
Bannerman, Wm.	Red Deer	*189	Dec. 18, 1901
Boomer, Alonzo	Lacombe	57	Nov. 22, 1905
Bartholomew, Claude D.	Morinville	886	Mar. 13, 1909
Barley, Chas.	Mountain House	887	Mar. 20, 1909
Bratz, Emil	Pincher Creek	1626	Mar. 11, 1911
Bessey, Alfred	Stettler	961	Apr. 13, 1909
Bell, David J.	High River	966	Apr. 16, 1909
Bailey, Geo.	Magrath	994	Apr. 22, 1909
Burton, Eddar W.	Calgary	1004	Apr. 23, 1909
Bell, Andrew J.	Shepard	1018	Apr. 28, 1909
Brantz, Aibert A.	Mewassin	1036	Apr. 28, 1909
Baumbach, John	Irvine	1046	May 1, 1909
Bishop, Frank E.	Medicine Hat	1047	May 1, 1909
Barnes, Edward	Edmonton	1061	May 21, 1909
Brown, Geo. C.	Edmonton	1077	May 26, 1909
Bakken, Nels O.	Iron Springs	1078	May 28, 1909
Benson, Roy	Calgary	1080	June 8, 1909
Buchanan, Wm. E.	Nanton	1907	Aug. 24, 1911
Baker, Bernard S.	Nanton	1115	Sept. 21, 1909
Burr, John C.	Calgary	1116	Sept. 21, 1909
Betton, Thos. W.	High River	1140	Sept. 21, 1909
Boyle, Jas. E.	Blairmore	1684	Mar. 29, 1911
Bercyz, Julius	Edmonton	1976	Oct. 24, 1911
Benson, Geo.	Taber	1151	Sept. 28, 1909
Bjor, Frank	Calmar	1158	Sept. 29, 1909
Black, Andrew	Edmonton	1171	Oct. 9, 1909
Bradley, Harold R.	Wetaskiwin	1176	Nov. 5, 1909
Barley, Jack E.	Edmonton	1181	Nov. 16, 1909
Burness, Hy.	Edmonton	1191	Jan. 10, 1910
Bouyea, Arthur	Calgary	1193	Feb. 3, 1910
Berwick, Albert E.	Red Deer	1196	Mar. 4, 1910
Beamer, Frank A.	Calgary	1203	Mar. 7, 1910
Bishop, Harvey M.	Calgary	1204	Mar. 7, 1910
Blackstock, John	Calgary	1204	Mar. 7, 1910
Bonnieleman, Wm.	Lethbridge	1215	Mar. 15, 1910
Buchring, Wm.	Winnifred	1216	Mar. 15, 1910
Barbin, M. J.	Coaldale	1217	Mar. 15, 1910
Baker, Thos. R.	Magrath	1218	Mar. 15, 1910
Beatty, Ed. S.	Lethbridge	1219	Mar. 15, 1910

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Bryant, Arthur	Lethbridge	1220	Mar. 15, 1910
Brown, Thos.	Frank	2069	Mar. 18, 1912
Baird, Sam	Blairmore	1625	Mar. 11, 1911
Bochnlein, Galuss J.	Macleod	1636	Mar. 15, 1911
Buck, Herbt. W.	Kitscoty	1302	Apr. 6, 1910
Buckler, Eric W.	Black Diamond	1322	Apr. 8, 1910
Buck, Alphalus B.	Okotoks	1323	Apr. 8, 1910
Bröwn, Archie B.	Acme	1334	Apr. 11, 1910
Bowman, Elra	Halkirk	1284	Apr. 1, 1910
Bonallo, Herbert D.	Calgary	1381	Apr. 21, 1910
Bonallo, Keir	Calgary	1382	Apr. 21, 1910
Babe, Richard	Whitla	1391	Apr. 25, 1910
Byron, J. Hercule	Edmonton	1417	May 13, 1910
Barr, John	Calgary	1418	June 2, 1910
Bent, Wm. K.	Coleman	1441	July 14, 1910
Brown, deWitt E.	Bellshill	1460	Aug. 15, 1910
Bryce, Wm.	Davisburg	1485	Sept. 6, 1910
Bree, Ernest N.	Edmonton	1491	Sept. 13, 1910
Burton, Francois J.	Edgerton	1492	Sept. 16, 1910
Bratvoid, Oscar	Dina	1493	Sept. 16, 1910
Barstad, Sanders E.	Lee Creek	1494	Sept. 16, 1910
Brattell, Jas. E.	Calgary	1520	Sept. 23, 1910
Brown, Geo. J.	Granum	1539	Oct. 3, 1910
Brubaker, Jonas	Mayton	1551	Oct. 17, 1910
Barrett, Alfred	Ponoka	1556	Oct. 17, 1910
Burton, Fredk. H.	Strathcona	1559	Oct. 19, 1910
Brown, Fredk. H.	Medicine Hat	1563	Oct. 20, 1910
Brown, Robt.	Lundbreck	1575	Oct. 20, 1910
Bradley, Harold	Bassano	1579	Nov. 14, 1910
Byers, Elmer L.	New Dayton	1858	June 20, 1912
		1583	Nov. 17, 1910
Bailey, Evans	Coleman	1776	Apr. 24, 1911
		1584	Nov. 17, 1910
Bridge, Ray C.	Calgary	1590	Dec. 8, 1910
Borrows, Wm.	Lethbridge	2244	May 1, 1912
Bond, Newton	Mannville	1593	Dec. 10, 1910
Bowerman, Cliff	Cowley	1635	Mar. 15, 1911
Brouse, Jason W.	Calgary	1608	June 23, 1911
Bergman, Jos. A.	Lethbridge	1610	Mar. 7, 1911
Bennett, Fred C.	Hillcrest	2072	Mar. 18, 1912
Brubaker, Isaac	Airdrie	1646	Mar. 20, 1911
Brown, Jno. E.	Calgary	1647	Mar. 20, 1911
Bye, Martin	Lillico	1670	Mar. 24, 1911
Bullman, Jno. E.	Warner	1685	Mar. 29, 1911
Berrigan, Steve	Bassano	1671	Apr. 19, 1911
Brougham, Wm. J.	Calgary	1762	Apr. 19, 1911
Bennifield, Jno. G.	Rosyth	1713	Apr. 5, 1911
Broahen, Wm. H.	Medicine Hat	1731	Apr. 7, 1911
Ballew, Geo. L.	Medicine Hat	1750	Apr. 15, 1911
Baumbach, Jacob I.	Irvine	1751	Apr. 15, 1911
Burnett, Elmer	Taber	1777	Apr. 24, 1911
Braumberger, Fred C.	Berseker	1801	May 6, 1911
Barnes, Jos.	Bassano	1817	May 20, 1911
Beil, John F.	Lethbridge	1825	May 26, 1911
Berg, Carl M.	Calgary	1848	June 13, 1911
Bradshaw, R. Davis	Edmonton	1868	June 21, 1911
Bennett, Wm. D.	Strathmore	1879	July 15, 1911
Bowler, Herbert A.	Edmonton	1888	Aug. 16, 1911
Branning, L. E.	Bow Island	1906	Aug. 24, 1911
Burns, Robt. W.	Holmglen	1926	Sept. 27, 1911

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Bartman, Geo. V.	Castor	1927	Sept. 7, 1911
Butters, Hy. G.	Airdrie	1931	Sept. 7, 1911
Bowen, Robt.	Strathcona	1953	Sept. 9, 1911
Baiers, Peter	Edmonton	1963	Oct. 18, 1911
Boler, Thos. A.	Keoma	1967	Oct. 20, 1911
Blades, Geo.	Stirlingville	1968	Oct. 20, 1911
Braithwaite, Harry	Lethbridge	1975	Oct. 24, 1911
Blake, Jas. H.	Calgary	2005	Dec. 2, 1911
Brennan, Fred	Edson	2007	Dec. 12, 1911
Brown, William	Coleman	2071	Mar. 18, 1912
Briggs, Myron W.	Barons	2090	Mar. 22, 1912
Boisvert, Antoine A.	Legal	2095	Mar. 25, 1912
Bruce, Geo. B.	Cardiff	2096	Mar. 25, 1912
Barnum, Louis O.	Acme	2108	Mar. 28, 1912
Baker, Elmer	Champion	2148	Apl. 16, 1912
Benson, Elmer A.	Brunetta	2149	Apl. 16, 1912
Bland, Harry O.	Taber	2156	Apl. 19, 1912
Bransen, John J.	Spring Lake	2163	Apl. 20, 1912
Bonnieleman, John	Seven Persons	2175	Apl. 23, 1912
Bissett, Robert B.	Gainsford	2192	Apl. 24, 1912
Bissell, Chas. M.	Gilpin	2193	Apl. 24, 1912
Beers, John	Calgary	2202	Apl. 26, 1912
Bibby, Reginald	Pine Creek	2235	Apl. 29, 1912
Baird, Peter A.	Edmonton	2410	Oct. 23, 1912
Burgess, Geo. G.	Lake View	2250	May 3, 1912
Birnel, Ernest E.	Sunnyslope	2251	May 3, 1912
Burnette, Fred N.	Calgary	2271	May 22, 1912
Boulet, John	Calgary	2272	May 22, 1912
Brennan, Cornelius	Bassano	2273	May 22, 1912
Bush, John Thomas	Edmonton	2308	June 17, 1912
Bird, Jos. Samuel	Edmonton	2326	July 12, 1912
Bronsema, Emanuel	Edmonton	2328	July 16, 1912
Buttress, Clement	Noyes Crossing	2329	July 16, 1912
Bristo, Wm. Geo.	Calgary	2338	July 18, 1912
Blix, Jno. A.	Calgary	2372	Sept. 19, 1912
Brown, James	Calgary	2404	Oct. 19, 1912
Bradshaw, Alfred	Calgary	2405	Oct. 19, 1912
Bailey, Peter	Edmonton	2422	Dec. 13, 1912
Baynton, Edward	Wainwright	2423	Dec. 13, 1912
Currie, L.	Strathcona	*23	Oct. 9, 1899
Cameron, John	Edmonton	*25	Oct. 9, 1899
Carscadden, F. W.	Strathcona	*45	Mar. 7, 1900
Clink, Geo. J.	Lacombe	*115	Dec. 31, 1900
Campbell, Michel	Canmore	*141	May 1906
Cruikshank, Chas.	Red Deer	*186	Dec. 18, 1901
Clauson, John	Red Deer	*231	Apr. 23, 1902
Currie, Wm.	Medicine Hat	*256	Aug. 18, 1902
Currie, Arch'd	Medicine Hat	*406	Aug. 23, 1903
Calhoun, Culver	Calgary	*488	Mar. 14, 1904
Curtis, W. W.	Carstairs	*551	Dec. 20, 1904
Coulter, Frank	Edmonton	*528	Apr. 18, 1904
Cunningham, J. E.	Ellerslie	*529	Apr. 18, 1904
Clark, W. A.	Edmonton	*530	Apr. 18, 1904
Charlette, Clifford	Beaumont	*634	Oct. 15, 1904
Cote, Jos.	Beaumont	*637	Oct. 15, 1904
Crichton, David O.	Lethbridge (dup.)	*59	Dec. 2, 1905
Carpenter, David	Pincher Creek	*679	Dec. 9, 1904
Cummins, Walter J. C.	Calgary	*743	Mar. 16, 1905
Colter, Chas.	Medicine Hat	*860	June 14, 1905

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Converse, E.	Ponoka	55	Nov. 16, 1905
Campou, Denis	St. Albert	82	Mar. 26, 1906
Clausen, Daniel	Evarts	106	Apr. 24, 1906
Cartwright, Geo.	Calgary	116	April 30, 1906
Cooper, Wm. S.	Calgary	126	Apr. 30, 1906
Craig, James T.	Edmonton	144	May 29, 1906
Colwell, Frank L.	Didsbury	152	May 31, 1906
Craig, Mert E.	Markerville	158	May 31, 1906
Clark, Jas. E.	Taber	172	Aug. 11, 1906
Clark, O. S.	Meadow Creek	1087	Oct. 20, 1909
Carcaden, Arthur	Nanton	194	Aug. 13, 1906
Charboneau, Len	Fort Saskatchewan ...	213	Sept. 13, 1906
Camfield, Ernest L.	Stettler	229	Sept. 20, 1906
Chabot, Jos.	Edmonton	235	Sept. 20, 1906
Coghill, Albert	Red Deer	239	Sept. 27, 1906
Cummings, Wm. J.	Bentley	244	Sept. 27, 1906
Curtis, Homer, G.	Edmonton	265	Apr. 29, 1907
Campbell, Jas. H.	Edmonton	282	May 15, 1907
Code, Jas. A.	Red Deer	296	May 20, 1907
Campbell, Johnson	Innisfall	317	May 29, 1907
Collard, Chas. D.	Mundare	332	May 31, 1907
Cosgrove, Jas. McA.	Calgary	341	June 4, 1907
Carter, John R.	Morningside	368	June 7, 1907
Cox, John	Stettler	369	June 7, 1907
Cunningham, Orvill D.	Vegreville	395	June 14, 1907
Cunningham, Wilber R.	Bawlf	403	June 14, 1907
Campbell, Benj. F.	Edmonton	405	June 14, 1907
Clark, Herbert	Strathcona	418	June 14, 1907
Coates, Robt. A.	Cochrane	441	June 29, 1907
Caplin, Fred C.	Huntsville	467	July 15, 1907
Charters, Ed. J.	Claresholm	469	July 15, 1907
Clemens, Pater F.	Stettler	531	Oct. 28, 1907
Crego, W. E.	Lacombe	537	Oct. 28, 1907
Cook, Wm. D.	Lamerton	565	Feb. 27, 1908
Culp, Geo. W.	Spring Coulee	630	Apr. 9, 1908
Cook, Francis R.	Medicine Hat	659	Apr. 27, 1908
Cutting, Francis R.	Vermillion	676	Apr. 27, 1908
Chambers, John	Lloydminster	710	May 18, 1908
Castlan, Desire	Cardiff	774	Sept. 18, 1908
Collard, Richard R.	Edmonton	775	Sept. 18, 1908
Coburn, Alex. F.	Daugh	787	Sept. 21, 1908
Cotterall, John	Calgary	798	Sept. 22, 1908
Clark, Tom	Cochrane	799	Sept. 22, 1908
Carrow, Jos. B.	Calgary	800	Sept. 22, 1908
Cull, Cecil	Vegreville	813	Sept. 28, 1908
Challenger, Alf. E.	Edgerton	814	Sept. 28, 1908
Courtright, Leo.	Maughan	815	Sept. 28, 1908
Carriere, Arthur	High River	825	Oct. 2, 1908
Cody, Wm. H.	High River	826	Oct. 2, 1908
Cousins, Bert.	High River	827	Oct. 2, 1908
Cousins, Walter	High River	828	Oct. 2, 1908
Cameron, Geo. M.	Calgary	861	Oct. 10, 1908
Cleave, Geo. M.	Vegreville	865	Oct. 27, 1908
Coffman, Robt.	Frank	868	Nov. 5, 1908
Curey, Wm.	Bowville	892	Mar. 24, 1909
Conibear, Wm. N.	Lethbridge	893	Mar. 24, 1909
Carlson, Carl G.	Didsbury	908	Mar. 26, 1909
Canton, Jules	Edmonton	939	Apr. 3, 1909
Chester, Thos. W.	Macleod	952	Apr. 7, 1909
Christian, Wm. M.	Vermillion	980	Apr. 20, 1909

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Thrd Class—Continued			
Cleven, Nels T.	Killam	995	Apr. 23, 1909
Court, Wm. E.	The Gap	1019	Apr. 28, 1909
Crews, Waldan	Medicine Hat	1048	May 1, 1909
Cathro, Aylmer G.	Lethbridge	1170	Oct. 9, 1909
Cowell, Robt. J.	Edmonton	1062	Oct. 21, 1909
Chalmers, John	Coleman	1110	Sept. 18, 1909
Cartwright, Walter	Frank	1111	Sept. 18, 1909
Cotton, Samuel J.	Coleman	1112	Sept. 18, 1909
rar, James	Edmonton	1179	Nov. 16, 1909
Cuddy, Andrew S.	Hillend	1197	Mar. 3, 1910
Czarkaski, Antonio	Edmonton	1202	Mar. 5, 1910
Campbell, John Chas.	Taber	1221	Mar. 15, 1910
Cimoline, Antonio	Lille	1248	Mar. 21, 1910
Callahan, Jos.	Pincher Creek	1258	Mar. 22, 1910
Cridland, Walter	Summerview	1259	Mar. 22, 1910
Cook, Marshall S.	Pincher Creek	2014	Dec. 19, 1911
Curtis, Claude C.	Macleod	1281	Mar. 30, 1910
Carroll, Thos. C. P.	Vermilion	1303	Apr. 6, 1910
Clay, Elmer	Paradise Valley	1304	Apr. 6, 1910
Cleophas, Leif M.	Coaldale	1313	Apr. 7, 1910
Cady, Lynn	Edmonton	1345	Apr. 13, 1910
Cheyne, Jas.	Edmonton	1405	May 17, 1910
Callfas, Henry	Edmonton	1442	July 14, 1910
Cutlack, Percy	Cowley	1469	Aug. 31, 1910
Cook, Delmer E.	Innisfall	1513	Sept. 21, 1910
Cameron, Jas. D.	Bassano	1521	Sept. 23, 1910
Clemlin, Samuel	Bawlf	1541	Oct. 7, 1910
Crawford, Robt.	Barnhill	1564	Oct. 20, 1910
Campbell, Hugh J.	Calgary	1578	Oct. 21, 1910
Clark, Gordon	Strathcona	1581	Nov. 15, 1910
Chapman, Thos.	Lethbridge	1612	Mar. 7, 1911
Chadwick, Emmi	Calgary	1648	Mar. 20, 1911
Czernlawski, Mike	Vegreville	1664	Mar. 22, 1911
Cary, Belbert	Stettler	1671	Mar. 24, 1911
Campbell, Lewis A.	Warner	1686	Mar. 29, 1911
Campbell, Benj.	Warner	1687	Mar. 29, 1911
Coffee, Clinton	Tide Lake	1732	Apr. 10, 1911
Coyle, Ed. S.	Nanton	1763	Apr. 19, 1911
Christlan, Neal	Magrath	1778	Apr. 24, 1911
Cox, Orville	Kesma	1802	May 6, 1911
Clemlnson, Jer	Calgary	1818	May 20, 1911
Clemlnson, Wm.	Calgary	1819	May 20, 1911
Caveny, Howard	Stavely	1859	June 20, 1911
Clock, Alf. L.	River Bow	1860	June 20, 1911
Call, Hubert L.	Wetaskiwin	1870	July 6, 1911
Crlnton, Bert	Sundlal	1875	July 13, 1911
Cromer, Walter	Edmonton	1889	Aug. 16, 1911
Chatvalre, Jean	Edmonton	1890	Aug. 16, 1911
Cameron, Frank A.	Calgary	1897	Aug. 22, 1911
Carney, Wm. C.	Nanton	1969	Oct. 20, 1911
Caron, Alphonse	Riviere Qu Barre	1985	Oct. 25, 1911
Cowe, George	Edmonton	1988	Nov. 10, 1911
Cook, Wm. R.	Taber	1997	Nov. 17, 1911
Corlett, Wm. Ed.	Edmonton	1768	Apr. 21, 1911
Corlett, Wm. Ed.	Edmonton	2225	Apr. 29, 1912
Carlson, Gus. A.	Battle River	1964	Oct. 18, 1911
Carlson, Gus. A.	Battle River	2287	May 29, 1912
Christie, Wm. W.	Cayley	2025	Jan. 16, 1912
Clegg, Wm. A.	Coleman	2028	Jan. 16, 1912
Corbett, Richard A.	Strathcona	2046	Feb. 23, 1912

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Coskey, Clarence J.	Passley	2057	Mar. 13, 1912
Cofell, Lemmy	Ardenville	2070	Mar. 18, 1912
Crapo, George	Bickerdike	2097	Mar. 25, 1912
Clem, John W.	Bragg Creek	2109	Mar. 28, 1912
Crawford, Dan A.	Magrath	2120	Apr. 2, 1912
Collins, Geo. H.	Gleichen	2125	Apr. 4, 1912
Carnahan, Reuben J.	Bassano	2126	Apr. 4, 1912
Cameron, Wm. T.	Sedgewick	2136	Apr. 10, 1912
Conover, Geo. F.	Grassy Lake	2176	Apr. 23, 1912
Collins, John	Calgary	2203	Apr. 26, 1912
Court, Ed. Alfred	Exshaw	2204	Apr. 25, 1912
Card, Herbert	Leslieville	2252	May 3, 1912
Cowger, Daniel L.	Bassano	2299	June 11, 1912
Collyer, Percy E.	Edmonton	2309	June 17, 1912
Copson, Fred W.	St. Albert	2310	June 17, 1912
Cameron, Wm. John	Calgary	2339	July 18, 1912
Craig, James A.	Tilley	2340	July 18, 1912
Chrisman, Frank	Vermilion	2382	Sept. 20, 1912
Cormier, Henry O.	Wetaskiwin	2397	Oct. 16, 1912
Curtis, Lee L.	Edmonton	2412	Nov. 8, 1912
Cox, Arthur	Calgary	2434	Dec. 18, 1912
Crosby, William	Exshaw	2435	Dec. 18, 1912
Delop, Thos.	Frank	*293	Sept. 30, 1902
Dobbs, F. M.	Iowalta	*515	Apr. 18, 1904
Druar, S. P.	Riviere Qui Barre	*532	Apr. 18, 1904
Dubuc, Emile	Morinville	*551	May 26, 1904
Davis, Henry E.	Didsbury	*752	Mar. 24, 1905
Davie, Alvin A.	Calgary	*846	Mar. 26, 1905
Dickson, Jas.	Blairmore	6	Sept. 16, 1905
Dowsett, Nat.	Frank	516	Oct. 22, 1907
Dye, Jas. E.	Ponoka	33	Sept. 16, 1905
Deisting, C. G.	Duhamel	54	Nov. 3, 1905
Dowling, Nelson	Edmonton	90	Mar. 11, 1906
Devillard, Louis	Edmonton	89	Mar. 11, 1906
Drader, Ernest	Lacombe	112	Apr. 25, 1906
Dawes, Albert A.	High River	121	Apr. 30, 1906
Davis, John B.	Edmonton	1183	Nov. 27, 1909
Dickson, Wm. A.	Medicine Hat	167	Aug. 11, 1906
Dickens, Chas.	Lille	183	Aug. 13, 1906
Dance, Walter H.	Innisfail	293	May 20, 1907
Doolan, John T.	Fort Saskatchewan	335	May 31, 1907
Doyle, John L.	Langdon	349	June 4, 1907
Davidson, Peter A.	Calgary	358	June 4, 1907
Drewes, H. F. W.	Mayville	373	June 7, 1907
Davidson, Andrew C.	Lacombe	377	June 7, 1907
Dersch, Anton L.	Leavings	451	July 15, 1907
Dobbie, Alex.	Pincher Creek	929	Apr. 1, 1909
Drury, Wm.	Taber	552	Dec. 26, 1907
Drinnon, Robt. McC.	Calgary	586	Mar. 23, 1908
Deakin, Thos.	Hillcrest	606	Apr. 8, 1908
Dickson, John	Red Deer	640	Apr. 14, 1908
Dehning, Louis H.	Tapscott	649	Apr. 15, 1908
Davis, Geo. O.	Crossfield	680	May 1, 1908
Dowsett, Alfred	North Bank	697	May 7, 1908
Davis, Chris. A.	Lavoy	724	May 18, 1908
Dennis, Glen	Vegreville	726	May 18, 1908
Denner, Jos.	Lesser Slave Lake	737	Aug. 6, 1908
Dunbar, Frank G.	Three Hills	756	Sept. 8, 1908
Dickan, Chas. J. H.	Didsbury	760	Sept. 11, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Davis, Clarence	Stavely	829	Oct. 2, 1908
Davis, Christopher	Lethbridge	846	Oct. 6, 1908
Dingee, Harry	Lethbridge	867	Oct. 29, 1908
Dangerfield, James A.	Olds	490	Dec. 30, 1909
Donnelly, Henry J.	Wetaskiwin	*784	Mar. 27, 1905
Dawson, John C.	Mountain View	455	July 15, 1907
Denson, Alex. R.	Bankhead	550	Dec. 5, 1907
Duffey, Alfred	Lethbridge	895	Mar. 24, 1909
Bluski, John	Sundial	897	Mar. 24, 1909
Deugan, Hiram W.	Coleman	910	Mar. 30, 1909
Darlmont, Jas.	Edmonton	942	Apr. 3, 1909
Dickan, Ferd W.	Ponoka	947	Apr. 17, 1909
Dupmeyer, Jos.	Edmonton	981	Apr. 20, 1909
Davis, Geo. W.	Falstaff	996	Apr. 22, 1909
Duncan, Alexr. D.	Edmonton	1063	May 21, 1909
Dixon, Wm.	Calgary	1117	Sept. 21, 1909
Dickie, Samuel	Lethbridge	1157	Oct. 5, 1909
Davey, John B.	Calgary	1206	Mar. 7, 1910
Dawson, Wm.	Macleod	1267	Mar. 28, 1910
Denike, Geo. H.	Lacombe	1285	Apr. 1, 1910
Davy, Stewart C.	Calgary	1324	Apr. 8, 1910
Davidson, Jas. F.	Calgary	1325	Apr. 8, 1910
David, J. R.	Vegreville	1696	Mar. 13, 1911
Darrow, Mason	Taber	1368	Apr. 15, 1910
Dainger, Orlando	Stirling	1369	Apr. 15, 1910
Dunn, Robt. J.	Calgary	1383	Apr. 21, 1910
Downing, Frank H.	Bassano	1385	Apr. 19, 1910
Dixon, Wm.	Calgary	1415	May 23, 1910
Dow, Alexr.	Lethbridge	1477	Sept. 1, 1910
Dredge, Wm. H.	Edmonton	1495	Sept. 16, 1910
Dow, Jas.	Lethbridge	1613	Mar. 7, 1911
Dixon, Geo. W.	Macleod	1638	Mar. 15, 1911
Davis, Wallace H.	Calgary	1649	Mar. 20, 1911
Dearden, Simon	Three Hills	1650	Mar. 20, 1911
De Wolfe, Wilburn	Sanderville	1672	Mar. 24, 1911
Dewar, Alex. K.	Fort Saskatchewan	1769	Apr. 21, 1911
Dankwerth, Wm. L.	Gleichen	1733	Apr. 10, 1911
Desler, Hy. C.	Stavely	1779	Apr. 24, 1911
Dunn, Chas. W.	Calgary	1803	May 6, 1911
Downham, Mark	Calgary	1804	May 6, 1911
Davison, H. Y.	Rexboro	1813	May 18, 1911
Damman, Wm.	New Dayton	1826	May 26, 1911
Davis, Wm. A.	Edmonton	1895	Aug. 18, 1911
Doten, Earl B.	Calgary	1932	Sept. 8, 1911
DeVore, Harley G.	Edmonton	1960	Sept. 30, 1911
Dow, Gavin, M.	Lethbridge	1998	Nov. 17, 1911
Davis, Alfred J.	Lethbridge	2015	Dec. 19, 1911
Desler, Geo. C.	Nanton	1274	Mar. 29, 1910
Desler, Geo. C.	Nanton	2110	Mar. 28, 1912
Draper, Harry	Calgary	2035	Mar. 14, 1912
Diemert, Eugene	Stavely	2091	Mar. 22, 1912
Dubuc, Arthur	Morinville	2098	Mar. 25, 1912
Dunn, Gerald A.	Crowfoot	2127	Apr. 4, 1912
Dyvig, Jacob	Carlstadt	2128	Apr. 4, 1912
Davis, Newton	Bassano	2129	Apr. 4, 1912
Dale, Lewis	Hayter	2137	Apr. 10, 1912
Dobson, Fred. J.	Camrose	2164	Apr. 20, 1912
Davidson, Wm. H.	Lloydminster	2195	Apr. 24, 1912
Dowsett, Edward J.	Whastao	2229	Apr. 29, 1912
Dawson, Frank B.	Bassano	2274	May 23, 1912

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Duffy, James T.	Strathmore	2300	June 11, 1912
Dillabough, Jacob	Edmonton	2311	June 17, 1912
Day, Ira J.	Edmonton	2381	Sept. 20, 1912
Davern, Joseph P.	Calgary	2391	Oct. 7, 1912
Drummond, John Wm.	Calgary	2392	Oct. 7, 1912
Dalglish, Thos. R.	Red Deer	2416	Nov. 12, 1912
Dowell, James H.	Edmonton	2424	Dec. 13, 1912
Davison, John W.	Calgary	2436	Dec. 18, 1912
Edgerton, Guy	Red Deer	*184	Dec. 18, 1901
Evarts, Lucius P.	Calgary	*394	Aug. 14, 1903
Evarts, Philo	Banff	*490	Mar. 4, 1904
Edmonds, Thos. J.	Edmonton	*803	Mar. 31, 1905
Enbody, Chas. S.	Calgary	125	Apr. 30, 1906
Ennes, John Jas.	Innisfail	147	May 31, 1906
Ewart, David	Strathcona	219	Sept. 13, 1906
Endersby, Jos. P.	Medicine Hat	261	Apr. 6, 1907
Engen, Anton A.	Sunny Slope	311	May 29, 1907
Eggenberger, John K.	Coalbanks	327	May 29, 1907
Elliott, John	Calgary	353	June 4, 1907
East, Alfred E.	Strathcona	1436	July 7, 1910
Ensminger, Louis C.	Lacombe	400	June 14, 1907
Erratt, Wm. H.	Nanton	419	June 19, 1907
Emmerson, Robt.	Bellevue	911	Mar. 30, 1907
Ellis, John W.	Edmonton	492	Oct. 15, 1907
Elliott, Henry N.	Carstairs	536	Oct. 28, 1907
Euard, Arthur W.	Calgary	556	Jan. 20, 1908
Elmhirst, Jos. A.	High River	584	Mar. 23, 1908
Elseman, Jos.	Peace River Crossing..	738	Aug. 6, 1908
Ellison, O. H.	Strome	783	Sept. 18, 1908
Endersby, John Geo.	Lethbridge	10	Sept. 16, 1905
Elford, Albert	Grassy Lake	1009	Apr. 25, 1909
Edwards, Orlen	Cheadle	1020	Apr. 28, 1909
Emmericks, John J.	Gleichen	1861	June 20, 1911
Evans, John B.	Canmore	1022	Apr. 28, 1909
East, Neal	Edmonton	1083	July 9, 1909
Elder, Chas. G.	Calgary	1118	Sept. 21, 1909
Entwistle, Chas. H.	Edmonton	1145	Sept. 24, 1909
Elliott, Thos.	Cardiff	1182	Nov. 24, 1909
Emrich, Wm.	Innisfail	1198	Mar. 4, 1910
Enzenauer, Peter	Loma	1263	Mar. 24, 1910
Earl, Edgar G.	Norton	1392	Apr. 25, 1910
Egger, Christian	Bowville	1411	May 21, 1910
Ells, Fredk. B.	Coleman	1422	June 11, 1910
Erickson, Eric A.	Milk River	1423	June 11, 1910
Enyeart, Chas. F.	New Dayton	1566	Oct. 20, 1910
Evans, Geo. W.	Magrath	1314	Apr. 7, 1910
Emde, Wm. J.	Coaldale	1614	Mar. 7, 1911
Eld, Gust	Parkland	1651	Mar. 20, 1911
Eshpeter, Hy.	Spring Lake	1714	Apr. 5, 1911
Ensign, Elmer G.	Barnwell	1780	Apr. 24, 1911
Edwards, Jas. M.	Calgary	1820	May 20, 1911
Evanson, Ed. M.	Raymond	1876	July 13, 1911
Earl, Alex.	Strathcona	1891	Aug. 16, 1911
Evans, Earl L.	Leslieville	1928	Sept. 7, 1911
Evans, Thos. O.	Lille	1999	Nov. 17, 1911
Eiklor, James J.	Calgary	2036	Feb. 14, 1912
Edmonds, Charles	Strathcona	2099	Mar. 25, 1912
Elynik, Fred.	Mundare	2194	Apr. 24, 1912
Engen, Ole K.	Suffield	2301	June 11, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Evans, Alfred	Edmonton	2312	June 17, 1912
Eades, John J.	Vermillion	2393	Oct. 10, 1912
Flack, Samuel	Red Deer	*211	Dec. 10, 1912
Findlay, Jas. F.	Leduc	*194	Dec. 18, 1901
Fair, Francis Wm.	Medicine Hat	*257	Aug. 18, 1903
Foster, Wm. W.	Red Deer	*370	May 13, 1903
Fluker, W. R.	Fort Saskatchewan	*545	Apr. 18, 1904
Flett, Andrew R.	Calgary	*744	Mar. 16, 1905
Farren, Edgar	Evarts	*777	Mar. 24, 1905
Fowler, Wm. H.	Edmonton	*800	Mar. 31, 1905
Flintoff, Walter	Partridge Hill	*816	Apr. 14, 1905
Ferguson, Ernest G.	Fort Saskatchewan	944	Apr. 5, 1909
Fairman, Chas.	Medicine Hat	85	Apr. 11, 1906
Frizelle, Jas. I.	Lacombe	104	Apr. 24, 1906
Fullerton, Thos. W.	Calgary	122	Apr. 30, 1906
Fordyce, J.	Bowden	156	May 31, 1906
Faltainsley, M.	Morinville	208	Sept. 13, 1906
Fitzsimmons, G. E.	Calgary	237	Sept. 24, 1906
Falkenberg, Fred D.	Saron	275	May 15, 1907
Forster, Michael	Leduc	278	May 15, 1907
Fortune, Geo.	Trochu Valley	301	May 23, 1907
Fryett, Arthur J.	Neapolis	312	May 29, 1907
Frieson, J. F.	Sunny Slope	313	May 29, 1907
Fike, Daniel K.	Crossfield	320	May 29, 1907
Fuller, Albert	Calgary	357	June 4, 1907
Fox, Henry	Olds	380	June 10, 1907
Findley, Thos.	High River	429	June 19, 1907
Fricke, Chas. L.	Erskine	541	Oct. 28, 1907
Fauver, A. E.	Lamerton	542	Oct. 28, 1907
Freeze, Benj. H.	Edmonton	590	Apr. 2, 1908
Fried, Vincent J.	Granum	598	Apr. 2, 1908
		1643	Mar. 15, 1911
Firth, Hedrick	Lethbridge	603	Apr. 8, 1903
Fowler, Dan T.	Magrath	614	Apr. 8, 1903
Friesen, Peter	Didsbury	652	Apr. 15, 1908
Fenner, John S.	Camrose	718	May 18, 1908
Farquhar, Alex. W.	Calgary	802	Sept. 22, 1908
Fortin, Chas. C.	Morinville	876	Jan. 18, 1909
Forland, Ole	Lethbridge	900	Mar. 24, 1909
Feargue, Francis J.	Pincher Creek	930	Apr. 1, 1909
Forrest, Jas. O.	Lacombe	951	Apr. 5, 1909
Fowle, Wm.	Blayney	967	Apr. 16, 1909
Forslin, John	New Dayton	989	Apr. 20, 1909
Falardean, Aaron J.	Taber	1010	Apr. 25, 1909
Francis, Jos.	Taber	1011	Apr. 25, 1909
		1717	Apr. 5, 1911
Fullerton, Daniel W.	Taber	1012	Apr. 25, 1909
Fielding, Jas.	Lethbridge	1434	June 25, 1910
Farrend, Chas. H.	Barnwell	1152	Sept. 28, 1909
Finstad, Ole A.	Clareholm	1153	Sept. 28, 1909
Fansher, Fred	Lamont	1159	Sept. 29, 1909
Fedun, John	Mundare	1160	Sept. 29, 1909
Frey, Frank	Frank	1172	Oct. 11, 1909
Fairbairn, Robt.	Vegreville	1174	Oct. 22, 1909
Fietz, Otto	Diamond City	1222	Mar. 15, 1910
Fisher, Bert	Coleman	1250	Mar. 21, 1910
Fowler, Willis L.	High River	1261	Mar. 22, 1910
Frank, Christopher E.	Frankburg	1264	Mar. 24, 1910
Fedoruk, Tyofl	Vegreville	1305	Apr. 6, 1910

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Fenton, S. A.	Taber	1370	Apr. 15, 1910
Fletcher, John R.	Grassy Lake	1378	Apr. 19, 1910
Francis, Wm.	Carlstadt	1393	Apr. 25, 1910
Frigon, Fred	Calgary	1447	July 15, 1910
Fike, Jesse J.	Barnwell	1511	Sept. 21, 1910
Forey, John Jos.	Big Valley	1514	Sept. 21, 1910
Forster, Jas.	Hillcrest	1627	Mar. 11, 1911
Firth, Wilfred	Macleod	1637	Mar. 15, 1911
Farrell, Percy E.	Carstairs	1652	Mar. 20, 1911
Ferguson, Dugald	Nanton	1734	Apr. 10, 1911
Frizzelle, Jinkle, G.	Calgary	1735	Apr. 10, 1911
Freisen, Ger. H.	Sunny Slope	1715	Apr. 5, 1911
Ferschweiler, Jno.	Trochu	1716	Apr. 5, 1911
Flynn, Chas.	Calgary	1736	Apr. 11, 1911
Fleming, Jas.	Medicine Hat	1781	Apr. 24, 1911
Forsyth, Jas. A.	Red Deer	1798	Apr. 26, 1911
Fleming, Andrew B.	Irricana	1805	May 6, 1911
Frache, Richard	Lethbridge	1862	June 20, 1911
Foster, Arthur C.	Calgary	1898	Aug. 22, 1911
Foughty, Clifford R.	Carlstadt	1933	Sept. 8, 1911
Forbes, John	Edmonton	2008	Dec. 12, 1911
Freeman, Herbert B.	Edmonton	2009	Dec. 12, 1911
Flamme, August W.	Bow Island	2058	Mar. 13, 1912
Fitzpatrick, John	Bellevue	2073	Mar. 18, 1912
Farmer, Raymond W.	Morningside	2138	Apr. 10, 1912
Fletcher, James	Metiskow	2165	Apr. 20, 1912
Freeland, Charles	Hindville	2231	Apr. 29, 1912
Fenwick, Charles	Strome	2297	June 10, 1912
Fairhurst, George	Coleman	2305	June 14, 1912
Farnsworth, Joseph	Seven Persons	2351	July 19, 1912
Findlay, Alex.	N. Edmonton	2383	Sept. 27, 1912
Gagnon, Alfred	St. Albert	*55	May 28, 1900
Gaetz, Jas. F.	Red Deer	*226	Apr. 23, 1902
George, John	Kamloops	*478	June 13, 1904
Giddings, Thos.	Calgary	*489	Mar. 14, 1904
Grigat, John	Leduc	*533	Apr. 18, 1904
Gobel, H. C.	Edmonton	*543	Apr. 18, 1904
Gardner, Marques	Red Deer	*780	Mar. 24, 1905
Green, Jno.	Medicine Hat	2285	May 25, 1912
Gallup, Walter E.	Medicine Hat	*858	June 14, 1905
Grote, Frank	Bon Accord	*890	Aug. 31, 1905
Griffen, Henry	Stavely	11	Sept. 16, 1905
Grote, Alex. E.	Spruce Grove	65	Mar. 16, 1906
Gibeault, J. Eugene	Morinville	70	Mar. 16, 1906
Graf, John	Fort Saskatchewan	92	Apr. 11, 1906
Garneau, Larry	Strathcona	224	Sept. 13, 1906
Godley, Maurice W.	Red Deer	238	Sept. 27, 1906
Grant, Farquhar	Edmonton	267	Apr. 29, 1907
Glaspie, Ed. H.	Hurry	331	May 31, 1907
Grue, Simon T.	Camrose	394	June 14, 1907
Grove, Benj. K.	Camrose	404	June 14, 1907
Grant, Geo. F.	Lewisville	412	June 14, 1907
Galentine, Frank	High River	434	June 19, 1907
Graves, Jas. H.	Calgary	1223	Mar. 15, 1910
Giese, Gottlieb W.	Spruce Grove	499	Oct. 15, 1907
Graham, Willard	Crossfield	519	Oct. 24, 1907
Gwillt, Geo.	Didsbury	528	Oct. 24, 1907
Gray, John A.	Claresholm	576	Mar. 23, 1908
Gibson, Wm. H.	Coleman	601	Apr. 8, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Gerrard, John	Lundbreck	2074	Mar. 18, 1912
Girber, Dan. E.	Sunny Slope	648	Apr. 4, 1908
Gillett, Geo. I.	Carstairs	681	May 1, 1908
Grundy, Jas.	Bowden	684	May 1, 1908
Greene, Geo. A.	Edmonton	708	May 18, 1908
Gustafson, Ivan	Leduc	1375	Apr. 19, 1910
Gibbs, Jas. A.	Delnorte	715	May 18, 1908
Gray, Wm. J.	Fort Vermilion	739	Aug. 6, 1908
George Wm. S.	Peace River Crossing..	740	Aug. 6, 1908
Graham, Jno. M.	Athabasca Landing ...	746	Aug. 13, 1908
Gotobed, B.	Strathcona	776	Sept. 18, 1908
Gale, Sydney H.	Calgary	791	Sept. 24, 1908
Gillies, Wm.	Strathcona	872	Dec. 23, 1908
Goodfellow, Jas.	Calgary	118	Apr. 30, 1906
Goeson, Geo. J.	Granum	912	Mar. 30, 1909
Gilmore, David	Frank	913	Mar. 30, 1909
Gibb, David T.	Raymond	990	Apr. 20, 1909
Gusa, Ernest E.	Calgary	1013	Apr. 25, 1909
Grobe, Chas. W.	Shepard	1023	Apr. 28, 1909
Geertruyden, H. Van	Edmonton	1086	July 25, 1909
Gilmore, Chas. R.	Red Willow	1091	Aug. 27, 1909
Gullekson, Edwin L.	Wetaskiwin	1195	Sept. 7, 1909
Guertin, Jos. E.	Bowville	1101	Sept. 15, 1909
Gowdy, Wm. T.	Airdrie	1119	Sept. 21, 1909
Green, Jay H.	Brant	1120	Sept. 21, 1909
Grimoldby, Walter H.	Strathcona	1161	Sept. 29, 1909
Gobell, Edward	Royal View	2266	May 18, 1912
Grigat, John Jr.	Leduc	1286	Apr. 1, 1910
Gunderson, Ingval J.	Warner	1360	Apr. 14, 1910
Gruldl, Stephen	Manfred	1404	May 17, 1910
Goodwin, Wm.	Strathcona	1448	July 15, 1910
Gerrie, Geo.	Oxville	1496	Sept. 16, 1910
Gibbons, Geo. A. R.	Battensburg	1497	Sept. 16, 1910
Giese, Daniel	Spruce Grove	1498	Sept. 16, 1910
Guess, Herbert	Pincher Creek	1567	Oct. 20, 1910
Gosling, Fredk.	Morley	1580	Nov. 14, 1910
Gilmer, Allan	Provost	1673	Mar. 24, 1911
Gerchke, Wm.	Walsh	1752	Apr. 15, 1911
Green, Chas. L.	Calgary	1764	Apr. 19, 1911
Gross, Hy. A.	Burdette	1702	Mar. 31, 1911
Graham, Oscar J.	Grassy Lake	1703	Mar. 31, 1911
Gardner, Fred W.	Dalroy	1737	Apr. 10, 1911
Gray, Jesse L.	Macleod	1782	Apr. 24, 1911
Gunderson, Cornelius	Warner	1827	May 26, 1911
Graham, Wm. Robt.	Summerview	1828	May 26, 1911
Gray, Wallace C.	Edmonton	1844	June 9, 1911
Greenwood, Joseph	Calgary	1850	June 13, 1911
Green, Jno. Hy.	Staunton	1877	July 13, 1911
Greenwood, John	Calgary	1899	Aug. 22, 1911
Graham, Wm. A.	Coaldale	1908	Aug. 24, 1911
Gray, Irving	Yetwood	1909	Aug. 24, 1911
Gray, Elgin W.	Entwistle	2330	July 16, 1912
Gaugner, Arthur O.	Lethbridge	1977	Oct. 24, 1911
Gray, Luke Chas.	Calgary	2367	Sept. 10, 1912
Gellhorn, Wilhelm	Strathcona	1594	Dec. 10, 1910
Gellhorn, Wilhelm	Strathcona	2425	Dec. 13, 1912
Gloer, Harrison	Iron Springs	2059	Mar. 13, 1912
Goetz, Emil Jos.	Evergreen	2075	Mar. 18, 1912
Graf, John Peter	Independence	2100	Mar. 25, 1912
Ganser, Moritz A.	Provost	2139	Apr. 18, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Greenwood, Geo. F.	Warner	2150	Apr. 16, 1912
Gretlum, Clarence	Bawlf	2166	Apr. 20, 1912
Grant, William, Jr.	Killam	2167	Apr. 20, 1912
Gair, David	Strome	2168	Apr. 20, 1912
Griggs, Ralph	Suffield	2171	Apr. 23, 1912
Gardner, Harold M.	Medicine Hat	2178	Apr. 23, 1912
Gaskell, Edwin	Edmonton	2201	Apr. 25, 1912
Grainger, Albert	Wainwright	2215	Apr. 29, 1912
Gilkinson, Robt. J.	Clover Bar	2223	Apr. 29, 1912
Goldsmith, Oliver	Ethelwyne	2224	Apr. 29, 1912
Gleason, Nathan S.	Red Deer	2253	May 3, 1912
Goodwin, Edwin C.	Bassano	2275	May 22, 1912
Graham, John	Edmonton	2288	May 29, 1912
Grimoldsby, John D.	Strathcona	2313	June 17, 1912
Griffith, Lewis O.	Calgary	2341	July 18, 1912
Galonot, Ernest L.	Cowley	2352	July 19, 1912
Gueker, Stephen M.	Big Valley	2409	Oct. 23, 1912
Glennon, Joshua	Banff	2421	Dec. 4, 1912
Hewer, Jesse J.	Strathcona	*24	Oct. 9, 1899
Harrold, David	Edmonton	*54	May 28, 1900
Heffner, Frank	Bruederheim	*92	Nov. 15, 1900
Holden, J. A.	Strathcona	*114	Dec. 31, 1900
Hober, Jno. W.	Ponoka	*214	Jan. 7, 1902
Harris, Ed. S.	Star	*327	Dec. 18, 1902
Hudson, Arthur C.	Edmonton	*330	Jan. 6, 1903
Hehndorfer, Jos.	Edmonton	*359	May 13, 1903
Haney, Sylvester	Lacombe	*482	Jan. 28, 1904
Houhestol, Anton	Wetaskiwin	*516	Apr. 18, 1904
Harrold, Jno. Jr.	Edmonton	*534	Apr. 18, 1904
Hankehadl, Edgar O.	Duhamel	*785	May 27, 1905
Hardy, Albert Wm.	Lake de May	878	Feb. 10, 1909
Henschel, August	Strathcona	49	Sept. 23, 1905
Hart, Wm. J.	Raymond	22	Sept. 16, 1905
Hacking, Geo. A.	Magrath	23	Sept. 16, 1905
Haybarger, Chas. A.	Fort Saskatchewan	34	Sept. 16, 1905
Hewitt, Robt. E.	Bon Accord	38	Sept. 18, 1905
Hays, Morion L.	Tofield	91	Apr. 11, 1906
Headley, Henderson	Medicine Hat	88	Apr. 11, 1906
Higgins, Jas. A.	Medicine Hat	87	Apr. 11, 1906
Humbke, Detriche E.	Battle River	101	Apr. 20, 1906
Hunter, Wm. Jno.	Fort Saskatchewan	109	Apr. 24, 1906
Hobson, Patrick J.	Strathcona	130	May 4, 1906
Hunter, Fred H.	Didsbury	151	May 31, 1906
Hallett, Geo. E.	Camrose	163	July 7, 1906
Henry, Ortus	Claresholm	177	Aug. 13, 1906
Heighington, J. H.	Rosenroll	1321	Apr. 7, 1910
Hammit, J. A.	Wetaskiwin	234	Sept. 20, 1906
Harris, A. J.	Chipman	223	Sept. 13, 1906
Hardy, Wm. B.	Edmonton	270	Apr. 29, 1907
Hellmers, Jno.	Millet	276	May 15, 1907
Hitchcock, Arthur L.	Pine Lake	292	May 20, 1907
Harris, Ed.	Mayton	303	May 23, 1907
Hardman, Geo. S.	Mayton	306	May 23, 1907
Hilts, Nell A.	Didsbury	314	May 29, 1907
Huff, Wm. H.	Crossfield	315	May 29, 1907
Harrison, David R.	Lamont	333	May 31, 1907
Handley, J. T.	Valley City	370	June 7, 1907
Hauser, John R.	Strome	387	June 14, 1907
Hauser, Geo. W.	Strome	401	June 14, 1907

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Halstead, Arthur L.	Edberg	407	June 14, 1907
Hoar, Wm. J.	Berry Bank	409	June 14, 1907
Hartt, Guy C.	High River	421	June 19, 1907
Herron, John A.	Nanton	915	May 30, 1909
Honan, John E.	High River	431	June 19, 1907
Hilslop, Thos. L.	Taber	443	June 15, 1907
Havervold, Robt. L.	Lethbridge	462	July 15, 1907
Henderson, Clifton C.	Elinor	470	July 15, 1907
Heitman, Herman	Pincher Creek	473	July 15, 1907
Hicks, Ephraim B.	Raymond	474	July 15, 1907
Harding, Norris H.	Lethbridge	848	Oct. 6, 1908
Hallman, Sydney E.	Carstairs	488	Oct. 12, 1907
Horne, Ned.	Edmonton	506	Oct. 15, 1907
Healey, Jos.	Bankhead	548	Dec. 5, 1907
Henderson, John H.	Taber	554	Dec. 26, 1907
Harris, Geo. A.	Calgary	555	Jan. 20, 1908
Horwood, Walter E.	Calgary	560	Jan. 20, 1908
Hyde, Geo. T.	High River	581	Mar. 23, 1908
Hutchings, Percy J.	Edmonton	595	Apr. 2, 1908
Howard, Sam	Frank	2076	Mar. 18, 1912
Hills, Wm. C.	Hillcrest	624	Apr. 9, 1908
Hilts, Simon, W.	Didsbury	654	Apr. 15, 1908
Hoy, Walter M.	Medicine Hat	665	Apr. 27, 1908
Haskins, Martin	Vermillion	670	Apr. 27, 1908
Hayes, Fred J.	Vermillion	677	April 27, 1908
Hall, Richard	Lloydminster	673	Apr. 27, 1908
Hilgkinson, R. R.	Kitscoty	671	Apr. 27, 1908
Holgate, Jno.	Aldrie	685	May 1, 1908
Haselwood, Alfred W.	Rosenroll	701	May 7, 1908
Hunting, Humphrey W.	Lacombe	769	Sept. 14, 1908
Holbrook, Peter E.	Stettler	770	Sept. 14, 1908
Hanlan, W. J.	Edmonton	777	Sept. 18, 1908
Hallvarson, Peter W.	Black Diamond	792	Sept. 22, 1908
Haeflin, Mark E.	Exshaw	793	Sept. 22, 1908
Henderson, Alex.	Granum	830	Oct. 2, 1908
Hendrickson, Jno.	Claresholm	831	Oct. 2, 1908
Henderson, Robt.	Lethbridge	958	Apr. 9, 1909
Hatfield, Chas. L.	Blayney	968	Apr. 16, 1909
Hansen, Peter C.	Cleversville	977	Apr. 20, 1909
Hultgren, Victor	Stavely	987	Apr. 20, 1909
Horne, Geo., Jr.	Edmonton	982	Apr. 20, 1909
Hall, David N.	Grassy Lake	993	Apr. 30, 1909
Honeywell, Sid. C.	Sedgewick	997	Apr. 22, 1909
Hough, Oscar	Camrose	998	Apr. 22, 1909
Haugen, Peter M.	Bardo	999	Apr. 22, 1909
Hardy, Herbt. J.	Exshaw	1024	Apr. 28, 1909
Henderson, A. J.	Langdon	1025	Apr. 28, 1909
Hauptert, John	Lewisville	1044	Apr. 30, 1909
Hunter, Jas. S.	Edmonton	1064	May 21, 1909
Hendrie, Jas. M.	Lethbridge	1102	Sept. 15, 1909
Hermann, Chas.	Queenstown	1121	Sept. 21, 1909
Hutchinson, Fred.	High River	1122	Sept. 21, 1909
Herrick, Oscar F.	Eyremore	1123	Sept. 21, 1909
Hiney, Allan	Cochrane	1124	Sept. 21, 1909
Hatfield, Wilmer B.	Lethbridge	1178	Nov. 13, 1909
Hawkes, Wm.	Edmonton	1185	Dec. 4, 1909
Heighs, Geo., Jr.	Iron Springs	1225	Mar. 15, 1910
Hewitt, Jas. R.	Cowley	1251	Mar. 21, 1910
Homer, Samuel C.	Claresholm	1275	Mar. 29, 1910
Hazelwood, Ernest Wm.	Blitern Lake	1287	Apr. 1, 1910

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Hauser, Anthony B.	Strome	1288	Apr. 1, 1910
Hicks, Frank I.	Raymond	1315	Apr. 7, 1910
Harris, Thos. Wm.	Raymond	1316	Apr. 7, 1910
Hislop, Wilber	Calgary	1320	Apr. 7, 1910
Hendrickson, Edwin	Crossfield	1335	Apr. 11, 1910
Hickox, Wm. C.	Cochrane	1336	Apr. 11, 1910
Holte, Ole	Logan	1347	Apr. 13, 1910
Hansen, Fred	Viking	1348	Apr. 13, 1910
Hammer, Leo	Lethbridge	1353	Apr. 14, 1910
Hipp, Wm.	Taber	1371	Apr. 15, 1910
Herrick, Weston M.	Cleeverville	1387	Apr. 22, 1910
Harder, Andrew J.	Medicine Hat	1412	May 21, 1910
Harrold, John	Lethbridge	1394	Apr. 25, 1910
Hamilton, Walter	Olds	1419	June 9, 1910
Hamilton, John	Pincher Creek	1424	June 11, 1910
Hughes, Robt. Samuel	Cardiff	1443	July 14, 1910
Hall, Jesse D.	Stirling	1466	Aug. 30, 1910
Horn, Peter	Lethbridge	1467	Aug. 30, 1910
Horn, Wm.	Lethbridge	1478	Sept. 1, 1910
Hansen, Arney	Millet	1602	Jan. 20, 1911
Hill, Geo. S.	Edmonton	1499	Sept. 16, 1910
Harwood, Thos. R.	Stettler	1515	Sept. 21, 1910
Hohle, John F.	Calgary	1523	Sept. 23, 1910
Heaton, Frank	Edmonton	1528	Nov. 15, 1910
Holte, M. D.	Kipp	1615	Mar. 7, 1911
Heyland, Wm. N.	Claresholm	1644	Mar. 16, 1911
Hough, Floyd G.	Calgary	1653	Mar. 20, 1911
Halloran, Fred P.	Strathecona	1665	Mar. 22, 1911
Harding, Thos. H.	Edmonton	1666	Mar. 22, 1911
Hallett, John	Castor	1674	Mar. 24, 1911
Hanna, Robt. J.	Stirling	1680	Mar. 28, 1911
Howorth, Chas.	Calgary	1753	Apr. 15, 1911
Hagen, Henry	Battle Lake	1765	Apr. 19, 1911
Heisler, Jacob	Spring Lake	1718	Apr. 5, 1911
Hennessey, Robt. G.	Bassano	1719	Apr. 5, 1911
Horton, Frank S.	Medicine Hat	1748	Apr. 10, 1911
Harrison, Harley	Lethbridge	1783	Apr. 24, 1911
Holmberg, Jno. A.	Lucky Lake	1784	Apr. 24, 1911
Harrington, Dan. L.	Diamond City	1829	May 26, 1911
Horton, S. B.	Barons	1830	May 26, 1911
Hardy, Robt. W.	Leduc	1846	June 9, 1911
Honnor, Herbert N.	Medicine Hat	1863	June 20, 1911
Huff, W. P.	Edmonton	1880	July 15, 1911
Haine, Sanford	Edmonton	1881	July 18, 1911
Harwood, Walter	Castor	1892	Aug. 16, 1911
Hornberger, Raymond	Reid Hill	1910	Aug. 24, 1911
Hango, John J.	Red Deer	1929	Sept. 27, 1911
Henry, Wm. G.	Calgary	1934	Sept. 8, 1911
Hunerkoch, Geo. W.	Magrath	1941	Sept. 8, 1911
Harris, John	Fishburn	1942	Sept. 9, 1911
Hossler, Chas. A.	Halkirk	1961	Oct. 18, 1911
Heighington, Frank H.	Bittern Lake	1962	Oct. 18, 1911
Houghton, Ernest	Calgary	1970	Oct. 20, 1911
Hatherell, Albert	Suffield	1979	Oct. 24, 1911
Hanson, William	Spring Lake	1989	Nov. 11, 1911
Holmes, George E.	Gleichen	1993	Nov. 16, 1911
Holland, Milton C.	Noble	2016	Dec. 19, 1911
Harman, Frank E.	Pincher Stn.	1978	Oct. 24, 1911
Harman, Frank E.	Pincher Stn.	2432	Dec. 17, 1912
Hinkle, John F.	Carlstadt	2026	Jan. 16, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Holmberg, Robt. E.	Calgary	2037	Feb. 14, 1912
Halverson, John A.	Edgerton	2101	Mar. 25, 1912
Halvorson, Arent. C.	Metiskow	2140	Apr. 10, 1912
Halvorson, Henry G.	Metiskow	2141	Apr. 10, 1912
Halvorson, Elmer J.	Metiskow		10, 1912
Holt, Olaf A.	Winnifred	2179	Apr. 23, 1912
Holmgren, Walter	Edmonton	2196	Apr. 24, 1912
Holmgren, Walter	Edmonton	2331	July 16, 1912
Hedlund, Victor	Wainwright	2197	Apr. 24, 1912
Hoskins, James	Viking	2198	Apr. 24, 1912
Haines, Charles M. J.	Calgary	2205	Apr. 26, 1912
Hunter, Robert	Canmore	2206	Apr. 26, 1912
Hertel, Christian	Calgary	2207	Apr. 26, 1912
Hertel, Christian	Calgary	2437	Dec. 18, 1912
Howard, Henry	Wainwright	2216	Apr. 29, 1912
Hawryschuk, George	Mundare	2220	Apr. 29, 1912
Harding, Montague C.	Manville	2230	Apr. 29, 1912
Howes, Fred R.	Stauffer	2254	May 3, 1912
Heinze, William Ed.	Coperville	2255	May 3, 1912
Haney, Edward	Bassano	2276	May 22, 1912
Hickman, Edward H.	Gleichen	2277	May 22, 1912
Hanna, Melvin	Edmonton	2314	June 17, 1912
Hindman, James	Medicine Hat	2353	July 19, 1912
Halsall, Joseph	Stavely	2368	Sept. 17, 1912
Hardy, Thomas	Lethbridge	2369	Sept. 17, 1912
Hathaway, Harold	Edmonton	2394	Oct. 10, 1912
Hudson, Benj. R.	Cardston	2398	Oct. 17, 1912
Hesse, William	Calgary	2438	Dec. 18, 1912
Harman, Noah S. A.	Edmonton	2426	Dec. 13, 1912
Hildebrandt, Oscar	Strathcona	2427	Dec. 13, 1912
Imeson, Geo.	Stony Plain	*206	Dec. 18, 1901
Ibson, Clause W.	Mewassin	*804	Mar. 31, 1905
Isaacson, Frank	Claresholm	191	Apr. 13, 1906
Iverson, Olaf	Molstad	231	Sept. 20, 1906
Isaacson, Arthur F.	Evarts	514	Oct. 22, 1907
Isherwood, Wm.	Calgary	588	Mar. 23, 1908
Ingram, Wm.	Leduc	860	Oct. 7, 1908
Isaacson, Willie	Claresholm	969	Apr. 16, 1909
Illingworth, Jos.	Edmonton	983	Apr. 20, 1909
Inglesby, E. C.	Edmonton	1180	Nov. 16, 1909
Imler, Jno. C.	Okotoks	1326	Apr. 8, 1910
Ireland, James H.	Blairmore	1629	Mar. 11, 1911
Ingram, Wesley	Tofield	1697	Mar. 31, 1911
Ives, Albert J.	Grassy Lake	1704	Mar. 31, 1911
Ireland, Wm. Jas.	Cardston	1911	Aug. 24, 1911
Innes, James L.	Edmonton	2315	June 17, 1912
Iball, William	Kipp	2354	July 19, 1912
Jackson, Chas.	Calgary	*66	July 19, 1900
Joyner, Chas. A.	Bentley	*173	Oct. 2, 1901
James, Dunham D.	Didsbury	*321	Nov. 1, 1902
Jeune, Ivan	Wetaskiwin	*332	Feb. 13, 1903
Jamieson, Johnston	Ponoka	*353	Apr. 24, 1903
Johnson, Conrid	Red Deer	*414	Aug. 29, 1903
Jameson, Chas. W.	Ponoka	*644	Oct. 15, 1903
James, F. S.	Ponoka	28	Sept. 16, 1905
Johnson, Elijah	Canyon	61	Dec. 29, 1905
Johnson, Ed.	Diana	99	Apr. 20, 1906
Jenson, Louis C.	Alix	114	Apr. 25, 1906

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Jones, Jack.	Bankhead	140	May 14, 1906
Johnson, Benj. F.	Raymond	186	Aug. 13, 1906
Jones, Fred.	Coleman	189	Aug. 13, 1906
Job, Chas.	Strathcona	222	Sept. 13, 1906
Jordon, A. H.	Edmonton	271	Apr. 22, 1907
Jesse, Ed.	Hardisty	316	May 29, 1907
Johnson, G. Anton	Didsbury	328	May 31, 1907
Johanson, Henry	Walsh	361	June 4, 1907
Johnson, Jos.	Medicine Hat	284	May 15, 1907
Jones, Arthur	Camrose	383	June 14, 1907
Johns, Thos. L.	Magrath	459	July 15, 1907
Jamieson, Jesse H.	Edmonton	505	Oct. 15, 1907
Johannson, Jno. T.	Olds	521	Oct. 24, 1907
Journey, Clyde R.	Brant	582	Mar. 22, 1908
Jepson, Walter	Bellevue	612	Apr. 8, 1908
Johnston, Percy W.	Edmonton	713	May 18, 1908
Johnson, Elmer	Daysland	716	May 18, 1908
Julien, Eugene	South Bend	720	May 18, 1908
Johnson, Chas. J.	Stavely	832	Oct. 2, 1908
Jenson, Ole E.	Seven Persons	833	Oct. 2, 1908
Jones, Isaac	Raymond	849	Oct. 6, 1908
James, John E.	Taber	850	Oct. 6, 1908
Johnson, Alfred	Hillcrest	917	Mar. 30, 1909
Jackson, Thos. C.	Stettler	962	Apr. 13, 1909
James, Griffith L.	Ponoka	975	Apr. 17, 1909
Jones, Robert	Lethbridge	1103	Sept. 15, 1909
Jermaine, Stephen	Andrew	1038	Apr. 29, 1909
Johnson, W. E.	Lethbridge	1058	May 4, 1909
Jones, Arthur W.	Edmonton	1060	May 20, 1909
Johnson, John G.	Millet	1065	May 21, 1909
Jones, Wm. Daniel	Edmonton	2289	May 29, 1912
Johnson, Chas. J.	Onoway	1192	Jan. 10, 1910
Jones, Wm. C.	Bow Island	1226	Mar. 25, 1910
Jeanclaude, Leopold	Edmonton	1306	Apr. 6, 1910
Jackson, Roy E.	Queenstown	1327	Apr. 8, 1910
Johnston, Albert J.	Calgary	2208	Apr. 26, 1912
Jordan, Glen L.	Banff	1338	Apr. 11, 1910
Jones, Albert E.	Rosebud Creek	1407	Apr. 19, 1910
Johnsrud, Alfred	Harmattan	1552	Oct. 17, 1910
Johnson, Jas. F., Jr.	Barnwell	1568	Oct. 20, 1910
Jones, Samuel	Lethbridge	1618	Mar. 7, 1911
James, Reginald	Coleman	1630	Mar. 11, 1911
Jensen, Rasmus	Raymond	1681	Mar. 28, 1911
Johnson, Wm. F.	Walsh	2021	Dec. 27, 1911
Jones, Wm. N.	Edmonton	1814	Apr. 18, 1911
Jenkins, Jas.	Coleman	1831	May 26, 1911
Jelly, Alf.	Calgary	1882	July 19, 1911
Johnson, Ellin	Calgary	1923	Aug. 26, 1911
Joseph, Orvil E.	Macleod	1935	Sept. 8, 1911
Jantzen, Peter H.	Calgary	1936	Sept. 8, 1911
Johnson, Benj. C.	Magrath	1943	Sept. 9, 1911
James, John	Elcan	1983	Oct. 24, 1911
Johnson, Joseph	Blackie	2038	Feb. 14, 1912
Johnson, William	Ft. Chipewayn	2045	Feb. 22, 1912
Jackline, Morley	Lethbridge	2060	Mar. 13, 1912
Jones, Ray	Calgary	2239	May 1, 1912
Jackson, Geo. Alex.	Lignite	2263	May 8, 1912
Jeffrey, Philip	Granum	2360	Aug. 14, 1912
Johannsen, Alfred	Calgary	2376	Sept. 19, 1912
Johnson, John Peter	Taber	2399	Oct. 17, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Krause, Otto	Innisfail	*171	Oct. 1, 1901
Kannglessner, Simon	Lacombe	*521	Apr. 18, 1904
Kelsey, A. F.	Clover Bar	*535	Apr. 18, 1904
Knapp, Henry H.	Edmonton	*645	Oct. 15, 1904
Kerwin, James	Leavings	*748	Mar. 16, 1905
Kolner, Bernard	Millet	*793	Mar. 27, 1905
Klapstein, Ed.	Ellerslie	*49	Apr. 25, 1900
Krouse, Wilhelm	Spruce Grove	*819	Apr. 14, 1905
Kallis, Ed.	Strathcona	*847	May 26, 1905
Knight, Harry P.	Edmonton	35	Sept. 16, 1905
Krinke, August	Highland Park	46	Sept. 18, 1905
Kerr, John	Calgary	64	Mar. 9, 1906
Kennedy, Dent.	Calgary	124	Apr. 30, 1906
Karmagel, F. R.	Didsbury	154	May 31, 1906
Kiddle, Thos. M.	Stirling	165	Aug. 11, 1906
Kearney, W. J.	Claresholm	178	Aug. 13, 1906
Kjosness, Peter P.	Martins	217	Sept. 13, 1906
Kendrews, Jos. W.	Edwell	250	Oct. 5, 1906
Krinke, Benj.	Highland Park	249	Oct. 5, 1906
Knowles, Kenneth E.	Wetaskiwin	264	Apr. 25, 1907
Kremer, David H.	Innisfail	294	May 20, 1907
Kjorsvik, Albert	Eagle Hill	305	May 23, 1907
Kittlitz, Ed.	Bruederheim	329	May 31, 1907
Kenny, John	Calgary	918	Mar. 30, 1909
Knape, Ernest P.	Calgary	344	June 4, 1907
Keegan, Dan	Morley	355	June 4, 1907
Kreamer, Wm. W.	Strathcona	384	June 14, 1907
Keith, Scott	Taber	551	Dec. 26, 1907
Kniseley, Arthur C.	Standoff	1143	Sept. 21, 1909
Klein, Emil F.	Leduc	669	Apr. 27, 1908
Kadlec, Frank	Wetaskiwin	712	May 18, 1908
Kinne, Fred	Calgary	750	Aug. 28, 1908
Kemp, Robt. M.	Dwagh	816	Sept. 28, 1908
Keoster, Carl H.	Granum	834	Oct. 2, 1908
Keeler, Ralph A.	Lethbridge	851	Oct. 6, 1908
Kendrew, John T.	Edwell	888	Mar. 20, 1909
Kalis, Theodore	Edmonton	941	Apr. 2, 1909
King, Chas. F.	Macleod	953	Apr. 7, 1909
Knudson, Loues	Killam	1000	Apr. 22, 1909
Kundson, Chas. A.	Wetaskiwin	1098	Sept. 10, 1909
King, Benj.	Lethbridge	1227	Mar. 15, 1910
Keffer, J. John	Frank	2078	Mar. 18, 1912
Kltchen, Elroy R.	Cayley	1265	Mar. 24, 1910
Kittlitz, Chrystian	Bruederheim	1307	Apr. 6, 1910
Kneis, Louis	Stony Plain	1308	Apr. 6, 1910
Krutz, John	Calgary	1328	Apr. 8, 1910
Klncade, Jerry	Stirling	1372	Apr. 15, 1910
Klinger, Hy.	Calgary	1428	June 14, 1910
Kjosness, Alfred	Martins	1501	Sept. 21, 1910
Kuhl, Edwin	Stony Plain	1502	Sept. 21, 1910
Klnnen, Peter	Independence	1509	Sept. 21, 1910
Kruse, Herman	Hastings Coulee	1542	Oct. 7, 1910
Knight, O. L.	Taber	1586	Nov. 17, 1910
Krempfer, Ernest	Edmonton	1589	Nov. 23, 1910
Kirkby, Theo.	Lethbridge	1619	Mar. 7, 1911
Kolschorofsky, Ed.	Stony Plain	1698	Mar. 31, 1911
Kirstein, Aug.	Wetaskiwin	1720	Apr. 5, 1911
Klaus, John S.	Gleichen	1739	Apr. 19, 1911
Klncade, Wyet E.	Seven Persons	1796	Apr. 24, 1911
Keller, Fred	Edmonton	2384	Sept. 27, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Kemp, George F.	Calgary	1851	June 13, 1911
Kiviatniowsky, Joe	Heatherwood	1853	June 16, 1911
Klassen, Abm. W.	Acme	1900	Aug. 22, 1911
Kaatz, Ed. A.	Burdett	1912	Aug. 24, 1911
Kelly, John D.	Calgary	1937	Sept. 8, 1911
Kuhl, Edward	Calgary	2375	Sept. 19, 1912
Kidd, George	Lethbridge	2029	Jan. 16, 1912
Kirkham, John T.	Macleod	2077	Mar. 18, 1912
Kerr, William	Coleman	2079	Mar. 18, 1912
Kilmer, Owen	Suffield	2130	Apr. 4, 1912
Knight, Herbert	Therien	2228	Apr. 29, 1912
Kinsella, Chas. A.	Strathcona	2316	June 17, 1912
Kerr, John	Calgary	2342	July 18, 1912
Lamoureux, Alcide	Lamoureux	96	Nov. 15, 1900
Lee, Geo.	Edmonton	*2442	Dec. 20, 1912
Lewis, Wm. H.	Innisfail	*888	Aug. 28, 1905
Lamoureux, Alp.	Lamoureux	*186	Dec. 18, 1902
Loiselle, Jerry	Red Deer	1599	June 4, 1911
Lundy, Wm. Thos.	Innisfail	*227	Apr. 23, 1902
Lynch, Alix. W.	Blairmore	*259	Aug. 18, 1902
Lyseng, Knut K.	Bittern Lake	*390	Aug. 7, 1903
Lindberg, Erick	Calmar	*510	Apr. 18, 1904
Langhausen, Jacob	Fort Saskatchewan	*523	Apr. 18, 1904
Langhausen, Peter	Fort Saskatchewan	*524	Apr. 18, 1904
Lee, Andrew E.	Wetaskiwin	*525	Apr. 18, 1904
Lehman, Harrison	Edmonton	*564	Feb. 15, 1908
Logan, John	Penhold	*774	Mar. 24, 1905
Logan, Dan	Red Deer	*783	Mar. 24, 1905
Lee, Oscar E.	Wetaskiwin	*788	Mar. 27, 1905
Long, Albert W.	Namoo	36	Sept. 16, 1905
Lindholm, Andrew G. J.	Burnt Lake	60	Dec. 27, 1905
Lee, Albert	Wetaskiwin	97	Apr. 20, 1906
Laine, Francois P.	Bankhead	138	May 14, 1906
Lambe, Alex	Didsbury	150	May 30, 1906
Linkous, Jas. B.	Raymond	173	Aug. 13, 1906
Lindsay, Samuel D.	Strathcona	212	Sept. 13, 1906
Lennox, Jas. A.	Red Deer	251	Oct. 5, 1906
Luigi, Lega	Lille	256	Dec. 28, 1906
Lawrence, Fred'k. S.	Fort Vermilion	544	Oct. 29, 1907
Lawrence, Fenwick N.	Edmonton	260	Feb. 23, 1907
Lavoll, Lewis J.	Evarts	290	May 20, 1907
Lancaster, Robt. V.	Calgary	736	July 24, 1908
Latam, Myron B.	Content	371	June 7, 1907
Lehman, Sam	Nanton	438	June 19, 1907
Lamoureux, Hermida	Lamoureux	502	Oct. 15, 1907
Lamoureux, Albert	Lamoureux	503	Oct. 15, 1907
Lee, Thos. H.	Olds	518	Oct. 24, 1907
Lewis, Lyman L.	Olds	526	Oct. 24, 1907
Lang, Wm.	Okotoks	566	May 26, 1908
Lyon, Omar	Blayney	571	May 23, 1908
Lee, John A.	Edmonton	592	Apr. 2, 1908
Lee, Lars	Leduc	678	Apr. 27, 1908
Loveless, Peter	Lloydminster	707	May 18, 1908
Lucas, Sam B.	Daysland	719	May 18, 1908
Lansing, Geo.	Leavings	1455	Aug. 2, 1910
Littlefield, Chas. W.	Eagle Hill	909	Mar. 26, 1909
Large, Eugene	Frank	919	Mar. 30, 1909
Lehman, Peter L.	Pincher Creek	931	Apr. 1, 1909
Laut, Frank	Ena	960	Apr. 9, 1909

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Link, Ronald F.	Lethbridge	945	Apr. 6, 1909
Lunn, Edward	Stettler	963	Apr. 13, 1909
Lewis, Isaac H.	Killam	1001	Apr. 22, 1909
Long, Geo. S.	Namoo	1039	Apr. 29, 1909
Lunder, Andrew H.	Westerose	1045	Apr. 30, 1909
Leonard, Jas. F.	Seven Persons	1049	May 1, 1909
Larson, Edwin H.	Seven Persons	1050	May 1, 1909
Lindsey, Horace F.	Strathcona	1075	May 26, 1909
Larson, Harry	Langdon	1079	June 1, 1909
LaBonte, Fred	Calgary	1125	Sept. 21, 1909
Laventure, Arthur	Beaumont	1146	Sept. 25, 1909
Lawrence, Herman M.	Ross Creek	1162	Sept. 29, 1909
Long, Herbt. Wm.	Calgary	1187	Dec. 17, 1909
Lawrence, Sheridan	Fort Vermillion	741	Aug. 6, 1908
Laroux, Oliver	Chipewyan	742	Aug. 6, 1908
Lloyd, Roy A.	Carstairs	761	Sept. 11, 1908
Love, Thos.	Hicksburg	835	Oct. 2, 1908
Lindsay, Alvan A.	Calgary	1598	Jan. 6, 1911
Long, Henry G.	Calgary	1450	July 15, 1910
Lewis, Geo. H.	Calgary	1209	Mar. 7, 1910
Low, Ralph E.	Carmangay	1276	Mar. 29, 1910
Lloyd, John W.	Stavely	1277	Mar. 29, 1910
Lotan, Herbt. N.	Strome	1289	Apr. 1, 1910
Linquest, Nils W.	Rivierre Qui Barre ...	1309	Apr. 6, 1910
LeBranc, Roaul	Mayton	1332	Apr. 9, 1910
Lawrella, Michael	Bankhead	1339	Apr. 11, 1910
Lindman, W. L.	Milk River	1359	Apr. 14, 1910
Longacre, Fred	Taber	1373	Apr. 15, 1910
Levisque, Walter	Medicine Hat	1395	Apr. 25, 1910
Lunn, Arthur B.	Calgary	1401	Apr. 26, 1910
Long, Jas. W.	Calgary	1408	May 19, 1910
Lane, Lewis W.	Rowville	1425	June 11, 1910
Long, Fred	Belseker	1433	June 14, 1910
Lockhart, Wm.	Kipp	1479	Sept. 1, 1910
Lithgow, John	Reid Hill	1488	Sept. 6, 1910
Lorerm, John	Edmonton	1503	Sept. 21, 1910
Lighthall, Geo. B.	Bassano	1524	Sept. 23, 1910
Lambert, Arthur	Redcliff	1533	Sept. 24, 1910
LeGear, Russell C.	Wetaskiwin	1543	Oct. 7, 1910
Lindsay, Robt.	Lethbridge	1620	Mar. 7, 1911
Labby, Alfred	La Calmette	1770	Apr. 21, 1911
Lycan, Thos. S.	Bassano	1740	Apr. 10, 1911
Lysham, J. E.	Taber	1756	Apr. 15, 1911
Lambert, John A.	Taber	1785	Apr. 24, 1911
Lee, Ed. A.	Calgary	1809	May 8, 1911
Laughery, Jas. W.	Calgary	1821	May 20, 1911
Lister, Ossie	Lethbridge	1832	May 26, 1911
Lepard, Frank	Edmonton	1887	Aug. 11, 1911
Lake, Arch.	Calgary	1901	Aug. 22, 1911
Lee, John J.	Rosemead	1913	Aug. 24, 1911
Little, Wm. H.	Lethbridge	1944	Sept. 9, 1911
Lambert, Wm. E.	Diamond City	1980	Oct. 24, 1911
Lewis, Gilbert B.	Granum	1984	Oct. 24, 1911
Lefort, Henry	Taber	2013	Dec. 19, 1911
Levis, Everett E.	St. Albert	2024	Jan. 12, 1912
Lacquement, Eward C.	Yetwood	2031	Jan. 16, 1912
Lough, Marshall	Calgary	2039	Feb. 14, 1912
Lewis, Fred	Beaver Creek	2080	Mar. 18, 1912
Linton, William H.	Parkland	2092	Mar. 22, 1912
Lagasse, John L.	Edison	2102	Mar. 25, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Lippold, Herman	Cardston	2157	Apr. 19, 1912
Long, Charles W.	Medicine Hat	2180	Apr. 23, 1912
Lippert, Jacob	Irvine	2181	Apr. 23, 1912
Loritz, Frank	Strathcona	2218	Apr. 29, 1912
Levy, Ira M.	Albion Ridge	2246	May 2, 1912
Lohrman, Chris	Halkirk	2256	May 3, 1912
Lundh, Bernard	Claresholm	2306	June 14, 1912
Little, William Jno.	Strathcona	2385	Sept. 27, 1912
Lee, William O.	Youngstown	2411	Oct. 23, 1912
Lerbeckmo, Peter O.	Bardo	2428	Dec. 13, 1912
Morkin, Jno.	Dunbow	*39	Dec. 1, 1899
Martin, M. Z.	Morinville (suspended). ..	*56	May 28, 1900
Mitchell, Tim W.	Red Deer	*119	Feb. 7, 1901
Mather, E. M.	Calgary	*133	June 6, 1901
Morden, Jacob R.	Lacombe	*187	Dec. 18, 1901
Moore, John R.	Innisfail	*190	Dec. 18, 1901
Munier, Wilfred	Stony Plain	*199	Dec. 18, 1901
Miller, Philip	Morinville	*201	Dec. 18, 1901
Meneely, Wm.	Edmonton	*204	Dec. 18, 1901
Mikethus, Michael	Leduc	*210	Dec. 18, 1901
Morkeberg, D.	Innisfail	*232	Apr. 23, 1902
Martin, Henry E.	Wardner	*854	June 13, 1905
Mooney, W. S.	Lacombe	*513	Apr. 18, 1904
Murray, A. A.	St. Albert	*536	Apr. 18, 1904
Meunier, J. H.	Morinville	*537	Apr. 18, 1904
Meredith, Wilbert	Edmonton	*538	Apr. 18, 1904
Mathews, Geo.	Strathcona	*636	Oct. 15, 1904
Morgan, Oscar	Strathcona	*643	Oct. 15, 1904
Maxfield, W. H.	Namao	*646	Oct. 15, 1904
Mead, Francis A.	Pincher Creek	*678	Dec. 30, 1904
May, Daniel	Blairmore	*681	Jan. 21, 1905
Mew, John	Calgary	*750	Mar. 24, 1905
Muir, Wm. J.	Ponoka	1959	Sept. 23, 1911
Marler, Walter	Clover Bar	*799	Mar. 31, 1905
Mohr, John J.	Edmonton	*870	July 6, 1905
Morel, H. F.	Edmonton	37	Sept. 16, 1905
Melnik, Wm.	Star	40	Sept. 18, 1905
Mason, Jas. D.	Clover Bar	43	Sept. 18, 1905
Moss, Richard	Edmonton	*81	Mar. 26, 1905
Mahood, Robt. F.	Buford	94	Apr. 11, 1906
Murray, Dan L.	Bentley	105	Apr. 24, 1906
Mitchell, Jos. C.	Tees	111	Apr. 25, 1906
Moritz, Henry C.	Olds	146	May 31, 1906
Moritz, Louis, J. A.	Olds	148	May 31, 1906
Morkeberg, Holger	Markerville	157	May 31, 1906
Maxwell, Tim	Claresholm	180	Aug. 13, 1906
Murray, Thos. N.	Medicine Hat	171	Aug. 11, 1906
Muir, Geo. A.	Morrissey	877	Feb. 1, 1909
Maunchaw, Aug.	Strathcona	218	Sept. 13, 1906
Mead, Wm.	Edmonton	221	Sept. 13, 1906
Maxfield, Geo. A.	Namao	236	Sept. 13, 1906
Miller, Dick F.	Blackfalds	241	Sept. 27, 1906
Maicher, Chas.	Wetaskiwin	246	Oct. 5, 1906
Miller, Jones P.	Deinorte	334	May 31, 1907
Morrison, Avarid L.	Calgary	348	June 4, 1907
Martin, Jno. C. B.	Calgary	362	June 4, 1907
Moody, Jas. Wm.	Brocket	363	June 4, 1907
Morter, Chas. J.	Iowalta	365	June 7, 1907
Miller, Wm. M.	Brant	420	June 19, 1907

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Morrow, Jos. W.	Roundup	460	July 15, 1907
Meldrum, David (Jr.)	Raymond	466	July 15, 1907
Manning, Jas. A.	Cowley	471	July 16, 1907
Munro, Milo.	Gleichen	484	Aug. 28, 1907
Martin, Chas. A.	High River	487	Sept. 4, 1907
Miller, Fred C.	Cooking Lake	496	Oct. 15, 1907
Munro, Fred	Innisfail	510	Oct. 22, 1907
Morden, Jno.	Lacombe	925	Mar. 30, 1909
Malchow, G. E. A.	Earlville	538	Oct. 28, 1907
Mignault, Jos. C.	Calgary	579	Mar. 23, 1908
Middleton, Archie C.	Nanton	583	Mar. 23, 1908
Marshall, Frank P.	Spring Point	600	Apr. 8, 1908
May, Alex. S.	Lille	641	Apr. 14, 1908
Millar, T. B.	Burnt Lake	1631	Mar. 7, 1911
Marson, Chas. H.	Medicine Hat (dup.) ..	735	July 15, 1908
Mitchell, Franklin A.	Medicine Hat	664	Apr. 27, 1908
Miles, Jas.	Vermilion	667	Apr. 27, 1908
Mark, David McK.	Manville	1189	Dec. 29, 1909
Marler, Jas. T.	Crossfield	683	May 1, 1908
Martin, Landis	Stettler	686	May 1, 1908
Millar, Jno. F.	Bentley	694	May 6, 1908
Munro, Alex. A.	Lockhart	696	May 6, 1908
Morris, Wm. H.	Wetaskiwin	698	May 6, 1908
Maurice, Frank E.	Edmonton	730	May 26, 1908
Maxwell, Jno. W.	Cochrane	731	June 12, 1908
Morris, Jas. E.	Lochend	732	June 12, 1908
Morris, Jas. W.	Canmore	734	June 29, 1908
Morton, Lewis R.	Athabasca Landing	745	Aug. 6, 1908
Mott, Henry J.	Red Deer	752	Sept. 2, 1908
Murray, Jas.	Murray Valley	757	Sept. 8, 1908
Mortelette, H. C.	Edmonton	778	Sept. 18, 1908
Masse, Louis	Legal	778	Sept. 21, 1908
Mulligan, Geo. B.	Bon Accord	789	Sept. 21, 1908
Miller, Jacob	Stony Plain	790	Sept. 21, 1908
Marshall, Robt. E.	Raymond	852	Oct. 6, 1908
Murphy, Edward F.	Strathcona	875	Jan. 8, 1909
Morris, Andrew	Calgary	882	Mar. 19, 1909
Mackin, John	Lethbridge	902	Mar. 24, 1909
Mitchell, Ava D.	Aldersyde	935	Apr. 2, 1909
Munson, Jas. B.	Reld Hill	936	Apr. 2, 1909
Moore, Corey G.	Macleod	954	Apr. 7, 1909
Mudlman, David L.	Macleod	970	Apr. 16, 1909
Myers, James	Claresholm	955	Apr. 8, 1909
Myers, Roy C.	Claresholm	971	Apr. 16, 1909
Mulligan, Jos.	Canmore	1026	Apr. 28, 1909
Mundell, Wm. G. R.	Lethbridge	1054	May 3, 1909
Monson, Jos.	Camrose	1092	Sept. 7, 1909
Miller, Jas.	Diamond City	1104	Sept. 15, 1909
Marr, Robt.	Edmonton	1164	Sept. 29, 1909
Miller, Herman A.	Edmonton	1175	Oct. 27, 1909
Morris, John	Wild Horse	1177	Nov. 13, 1909
Mulrhead, Jas. W.	Calgary	1210	Mar. 7, 1910
Mitchell, Wesley C.	Calgary	1211	Mar. 7, 1910
Moriningstar, Roy	Lethbridge	1229	Mar. 15, 1910
Martin, Wm. A.	Lethbridge	1230	Mar. 15, 1910
Malchow, Fred C.	Claresholm	1278	Mar. 29, 1910
Mach, Jos.	Camrose	1291	Apr. 1, 1910
Messmer, Jno. F.	Hastings Coulee	1292	Apr. 1, 1910
Mildon, Wm. L.	Ponoka	1301	Apr. 5, 1910
Mueller, Mike M.	Warner	1361	Apr. 14, 1910

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**SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—Continued.**

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Mahood, C. J.	New Dayton	1362	Apr. 14, 1910
Mayberry, Thos. W.	Warner	1363	Apr. 14, 1910
Mitchell, Wm.	Calgary	1386	Apr. 21, 1910
Miles, John	Lethbridge	1388	Apr. 22, 1910
Merkel, Jacob F.	Irvine	1396	Apr. 25, 1910
Morley, Wm. N.	Morningside	1405	May 17, 1910
Mogridge, John Jas.	Copeville	1420	June 9, 1910
Molton, Earl	Calgary	1464	Aug. 29, 1910
Michaells, Eddie	Milk River	1481	Sept. 1, 1910
Marshall, Wm. J.	Calgary	1525	Sept. 23, 1910
Malcolm, Roy	Calgary	1526	Sept. 23, 1910
Moses, Geo.	Medicine Hat	1534	Sept. 24, 1910
Muir, Geo. H.	Ponoka	1982	Oct. 24, 1911
Matson, Chas.	Calgary	1577	Oct. 20, 1910
Mudra, Chas.	Frank	2081	Mar. 18, 1912
Matheson, Murdoch R.	Granum	1645	Mar. 15, 1911
Musser, Angus	Bassano	1654	Mar. 20, 1911
Mansell, Wm.	Canmore	1741	Apr. 10, 1911
Moran, George I.	Langdon	1766	Apr. 19, 1911
Martin, Wm.	Sandstone	1767	Apr. 19, 1911
Martin, A. W.	Taber	1786	Apr. 24, 1911
Maker, Edgar L.	Seven Persons	1787	Apr. 24, 1911
Malton, John W.	Calgary	1806	May 6, 1911
Murrell, Vasco E.	Hardisty	1810	May 13, 1911
Melanson, Norman M.	Edmonton	1815	May 18, 1911
Mattison, Fred	Blairmore	1834	May 26, 1911
Murphy, Matthew	Granum	1835	May 26, 1911
Mayberry, J. R.	Red Deer	1855	June 17, 1911
Mah, Sam	Edmonton	1871	July 12, 1911
Miller, Wm. G.	Ryley	1893	Aug. 16, 1911
Merrit, Arza M.	Noble	1914	Aug. 24, 1911
Milligan, John L.	Burdett	1920	Aug. 25, 1911
Mickleeson, George A.	Calgary	2041	Feb. 14, 1912
Miniekler, John	Calgary	1925	Aug. 26, 1911
Morrison, Wm. V.	Red Deer	1930	Sept. 7, 1911
Miller, Edward S.	Spring Coulee	1945	Sept. 9, 1911
Meldrum, John C.	Lethbridge	1947	Sept. 9, 1911
Mullin, Jas.	Edmonton	1955	Sept. 9, 1911
Mildren, Wm. Geo.	Airdrie	1972	Oct. 20, 1911
Morgan, Jacob	Lethbridge	1981	Oct. 24, 1911
Melle, Ed. L.	Carlstadt	1994	Nov. 16, 1911
Melnik, Fred	Star	2049	Feb. 23, 1912
Murray, William B.	Magrath	2062	Mar. 13, 1912
Miller, Henry J.	Claresholm	2063	Mar. 13, 1912
Malchow, Max. E.	Stavely	2093	Mar. 22, 1912
Morris, Ernest	Gladys	2111	Mar. 28, 1912
Mikshus, John	Leduc	2115	Apr. 1, 1912
Marty, Robert Jr.	Carlstadt	2131	Apr. 4, 1912
Meiklejohn, Lindsay	Provost	2144	Apr. 10, 1912
Milligan, Morris	Purple Springs	2158	Apr. 19, 1912
Montgomery, Geo.	Clover Bar	2233	Apr. 29, 1912
Miller, Clarence H.	Raymond	2247	May 2, 1912
Moon, William C.	Elkton	2257	May 3, 1912
Mills, Edward H.	Bentley	2258	May 3, 1912
Maxwell, James	Edson	2290	May 29, 1912
Martin, Arthur	St. Paul de Metis	2324	July 12, 1912
Massicotte, Omer	St. Paul de Metis	2325	July 12, 1912
Mullock, James I.	Edmonton	2334	July 16, 1912
Manning, Timothy	Calgary	2343	July 18, 1912
Miller, Chas. C.	Calgary	2344	July 18, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Murphree, William N.	Calgary	2345	July 18, 1912
Moulton, August	Clover Bar	2359	Aug. 12, 1912
Miller, Alex.	Bassano	2363	Aug. 20, 1912
Murray, Thomas H.	Medicine Hat	2400	Oct. 17, 1912
Miller, John	Diamond City	2401	Oct. 17, 1912
Mitchell, Geo. Hy.	Calgary	2406	Oct. 19, 1912
Murray, Jas. H.	Bankhead	2414	Nov. 8, 1912
Mackwood, Samuel	Lethbridge	2419	Nov. 13, 1912
Miller, Ellis G.	Edmonton	2429	Dec. 13, 1912
May, Albert	Bellevue	2433	Dec. 13, 1912
McKernan, Jas.	Edmonton	*28	Oct. 29, 1899
McDonald, Findlay	Sturgeon	*86	Oct. 23, 1900
McLellan, Jno.	Fort Saskatchewan	*93	Nov. 15, 1900
McLeod, M. J.	Fort Saskatchewan	*94	Nov. 15, 1900
McKellar, Jno.	Fort Saskatchewan	*95	Nov. 15, 1900
McKinley, Murdock	Stony Plain	*203	Dec. 18, 1901
McLean, Archibald	Lethbridge	*250	Aug. 18, 1902
McLean, Alix. M.	Calgary	*347	Mar. 9, 1902
McGarry, Fred	Lacombe	*355	Apr. 24, 1903
McDonald, Wm.	Penhold	*369	May 13, 1903
McConnell, Jas. R.	Red Deer	*372	May 13, 1903
McLean, Jas. A.	Star	*539	Apr. 18, 1904
McDiarmid, A. D.	Edmonton	*540	Apr. 18, 1904
McFayden, Jno. R.	Strathcona	*553	June 3, 1904
McDonald, Malcolm	Mountain Hill	*594	Sept. 14, 1904
McLeod, D. J. W.	Strathcona	766	Sept. 11, 1908
McKenzie, Dan	Lacombe	*760	Mar. 24, 1905
McInroy, Paul	Edwell	*773	Mar. 24, 1905
McEachern, Malcolm	Leduc	*792	Mar. 27, 1905
McCathy, Jas.	Calmar	*793	Mar. 27, 1905
McPhail, Jno.	Bellevue	8	Sept. 16, 1905
McDonald, Dan	Morinville	66	Mar. 16, 1906
McLaughlin, Chas.	Namoo	68	Mar. 16, 1906
McCallum, Albert W.	Beaver Lake	95	Apr. 18, 1906
McAnnaly, Peter J.	Crossfield	153	May 31, 1906
McLean, Wm. Jno.	Hillcrest	188	Aug. 13, 1906
McPherson, Jas. P.	Bentley	1416	May 23, 1910
McNutt, Watson	Medicine Hat	262	Apr. 6, 1907
McCune, Oscar	Red Deer	289	May 20, 1907
McGregor, Wm. W.	Blackfalds	298	May 20, 1907
McDonell, Archie A.	Calgary	339	June 4, 1907
McIvor, David S.	Marwayne	388	June 14, 1907
McWhirter, Jas. A.	Camrose	408	June 14, 1907
McAlister, Donald C.	Lethbridge	1088	Aug. 20, 1909
McDonald, Geo. A.	Pincher Creek	454	July 15, 1907
McAllister, Alfred	Claresholm	468	July 15, 1907
McGhan, Silas S.	Clover Bar	493	Oct. 15, 1907
McLean, Laughlin	Innisfail	512	Oct. 22, 1907
McGuire, Thos.	Lacombe	535	Oct. 28, 1907
McLean, Garnet W.	Calgary	558	Jan. 20, 1908
McPhee, Jno.	Edmonton	596	Apr. 2, 1908
McDonald, Hugh D.	Frank	605	Apr. 8, 1908
McNairland, Robt. Jas.	Granum	608	Apr. 8, 1908
McCutcheon, R. H.	Pincher Creek	631	Apr. 9, 1908
McRae, Duncan A.	Taber	633	Apr. 9, 1908
McRoberts, And.	Pine Lake	644	Apr. 14, 1908
McDougall, Wm.	Mewassln	655	Apr. 22, 1908
McIvor, Wm.	Marwayne	668	Apr. 27, 1908
McDermid, Alex. M.	Elkwater	703	May 14, 1908
McIntosh, Duncan D.	Three Hills	795	Sept. 22, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
McCall, Samuel D.	Pincher Creek	932	Apr. 1, 1909
McMillan, Hugh A.	Edmonton	943	Apr. 3, 1909
McPherson, Jabez B.	Bentley	946	Apr. 6, 1909
McKenzie, John A.	Edmonton	1067	May 21, 1909
McPherson, Adam	Red Deer	1089	Apr. 24, 1909
McKenzie, Geo.	Lethbridge	1106	Sept. 15, 1909
McKenzie, Wesley J.	Brant	1537	Sept. 28, 1910
McCausland, Chas. A.	Calgary	1457	Aug. 8, 1910
McCallum, Jos.	Beaver Lake	1163	Sept. 29, 1909
McAlister, Donald C.	Diamond City	1228	Mar. 15, 1910
McLaughlin, Lorne	Cardiff	1310	Apr. 8, 1910
McLaughlin, Wm. E.	Okotoks	1329	Apr. 8, 1910
McGibbon, Robt. F.	Taber	1374	Oct. 15, 1910
McCauley, Chas.	New Dayton	1426	June 11, 1910
McBlane, Donald	Cowley	1427	June 11, 1910
McPherson, Jno.	Calgary	2209	Apr. 26, 1912
McTighe, Frank B.	Lethbridge	1437	July 8, 1910
McKennan, Felix	Cochrane	1449	July 15, 1910
McKnight, Dan	Calgary	1454	July 29, 1910
McPherson, Alec.	Blairmore	1470	Aug. 31, 1910
McLeod, Jas. W.	Leslieville	1516	Sept. 21, 1910
McLeod, John B.	Innisfall	1517	Sept. 21, 1910
McInroy, Jno. C.	Innisfall	1555	Oct. 17, 1910
McGlenn, Lester S.	Lethbridge	1569	Oct. 20, 1910
McDonald, Wm. F.	Lethbridge	1570	Oct. 19, 1910
McAuley, Dan	Kipp	1621	Mar. 7, 1911
MacKay, Duncan	Sandstone	1655	Mar. 20, 1911
McLean, Jas.	Edmonton	1667	Mar. 25, 1911
McMullin, Alp. L.	Raymond	1682	Mar. 28, 1911
McLeod, Angus	Stettler	1721	Apr. 5, 1911
McLaughlin, Jas. M.	Bassano	1742	Apr. 10, 1911
McLean, Hugh	Cummings	1771	Apr. 21, 1911
McLean, Niven P.	Berseker	1807	May 6, 1911
McGlen, Robt. M.	Lethbridge	1833	May 26, 1911
McDermid, Chas. C.	Allx	1854	June 17, 1911
McKerricher, W. R.	Pincher Creek	1864	June 20, 1911
McCrae, Ern. A.	Lethbridge	1865	June 20, 1911
McLaughlin, Elmer	Edmonton	1896	Aug. 18, 1911
McClennand, Allan	Fishburn	1946	Sept. 9, 1911
McCarty, Jas. S.	Hand Hills	1995	Nov. 16, 1911
McLeod, Fraser	Diamond City	2355	July 19, 1912
McAlduff, Edward	Camrose	2006	Dec. 8, 1911
McCall, Frank M.	Red Willow	2040	Feb. 14, 1912
McCutcheon, Wm.	Strathcona	2047	Feb. 23, 1912
McLellan, Murdoch	Edmonton	2048	Feb. 23, 1912
McGinnis, Jno. W.	Lethbridge	2061	Mar. 13, 1912
McDonald, Robt. A.	Lethbridge	2121	Apr. 2, 1912
McMahon, James F.	Pleasington	2143	Apr. 10, 1912
McDaniel, Hugh C.	Whitla	2182	Apr. 23, 1912
McInnis, William	Cummings	2222	Apr. 29, 1912
McDonald, Wm. A.	Wainwright	2234	Apr. 29, 1912
McRitchie, Murray	Coleman	2267	May 18, 1912
McMillen, Allan D.	Edmonton	2278	May 23, 1912
McClintock, Warren	St. Albert	2317	June 17, 1912
McDonald, Chas. E.	Edmonton	2318	June 17, 1912
MacAuley, William	St. Paul de Metis	2332	July 16, 1912
McPhee, Murdoch	Edmonton	2332	July 16, 1912
McCann, John A.	Calgary	2364	Aug. 20, 1912
McDevitt, Wm. J.	Edmonton	2386	Sept. 27, 1912
McDonald, Angus	Edmonton	2387	Sept. 27, 1912

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—Continued.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
McTavish, Hugh R.	Ft. Saskatchewan	2413	Nov. 8, 1912
Nelson, Frank	Wetaskiwin	*60	May 30, 1900
Nichol, David	Innisfail	*191	Dec. 18, 1901
Noyes, Dan. E.	St. Albert	*197	Dec. 18, 1901
Nichols, Jas. J.	Edmonton	*358	May 13, 1903
Niven, Jno.	Lethbridge	*451	Oct. 6, 1903
Nehr, Wm. A.	Edmonton	75	Mar. 26, 1906
Nehr, Henry R.	Edmonton	245	Sept. 28, 1906
Noel, Kenneth E.	Canyon	113	Apr. 25, 1906
Nelson, Wilfred	Calgary	119	Apr. 30, 1906
Nelson, Arthur W.	Edmonton	132	May 10, 1906
Neeb, Louis	Edmonton	161	June 5, 1906
Nichols, Alex. J.	Edmonton	220	Sept. 13, 1906
Neis, Geo. M.	Lamerton	228	Sept. 20, 1906
Norlie, Hackon, C.	Edmonton	501	Oct. 15, 1907
Nixon, Robt. J.	Crossfield	524	Oct. 24, 1907
Nels, Philip	Lamerton	530	Oct. 24, 1907
Neilson, Geo.	Haynes	540	Oct. 28, 1907
Nadeau, T. Eudore	Lavoy	675	Apr. 27, 1908
Nichols, Wm. R.	Edmonton	729	May 26, 1908
Neufeld, Abraham J.	Neopolls	762	Sept. 11, 1908
Neufeld, Peter W.	Noelton	763	Sept. 11, 1908
Neate, Harry	Edmonton	779	Sept. 18, 1908
Newsome, Wm. H.	Calgary	796	Sept. 22, 1908
Norgaard, Peter J.	Calgary	797	Sept. 22, 1908
Norton, Paul	Reld Hill	836	Oct. 2, 1908
Nemsgern, Jno.	Claresholm	837	Oct. 22, 1908
Neville, Fred R.	Mountain View	853	Oct. 6, 1908
Norrie, Jas.	Medicine Hat	1051	May 1, 1909
Nelson, Peter I.	Amisk	1093	Sept. 7, 1909
Naylor, Edward H.	Morinville	1165	Sept. 29, 1909
Nelson, Chrest	Medicine Hat	1186	Dec. 17, 1909
Nicholson, John M.	Lundbreck	1253	Mar. 21, 1910
Neil, N. Walter	Coleman	1471	Aug. 31, 1910
Needham, Harry H.	Edmonton	1606	Jan. 23, 1911
Noble, William Jno.	High River	1656	Mar. 20, 1911
Nelson, Willard T.	Sunnyslope	1722	Apr. 5, 1911
Nichols, John D.	Lethbridge	1788	Oct. 24, 1911
Nelson, Joseph	Brant	2112	Mar. 28, 1912
Noland, Lars	Cardston	2122	Apr. 2, 1912
Nelson, Charles F.	Bonnie Glen	2145	Apr. 10, 1912
Nelson, Ernest W.	Calgary	2210	Apr. 26, 1912
Nothwang, Geo. K.	Edmonton	2217	Apr. 29, 1912
Neufeld, Abram W.	Noelton	2259	May 3, 1912
Neggerson, Edward	Calgary	2279	May 22, 1912
Nelson, Earl Alex.	Calgary	2365	Aug. 20, 1912
Ottewell, Richard P.	Edmonton	*27	Oct. 9, 1899
Omand, Jno.	Edmonton	*522	Apr. 14, 1904
Olsen, H. B.	Ellerslie	*542	Apr. 18, 1904
Oliver, Wesley N.	Wostok	*814	Apr. 14, 1905
Olsen, Gilbert E.	Star	*2358	Aug. 8, 1912
Ottewell, Albert	Clover Bar	77	Mar. 26, 1906
O'Dell, Geo. W.	High River	733	June 22, 1908
Orford, Andrew B.	Macleod	478	July 15, 1907
Oberg, Knute L.	Strathcona	491	Oct. 15, 1907
Oliver, Peter C.	Calgary	562	Jan. 20, 1908
Oakes, Louis D.	Claresholm	567	Mar. 23, 1908
O'Connor, Jno.	Mossleigh	568	Mar. 23, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Oler, Geo. Jr.	Stirling	602	Apr. 8, 1908
Orser, Jno. R.	Tristram	133	Apr. 9, 1910
O'Reilly, C.	Bells Hill	784	Sept. 18, 1908
Olson, Matz	Wilton Park	817	Sept. 28, 1908
Oster, Carl	Good Hope	818	Sept. 28, 1908
Orr, Alf. E.	Irvine	854	Oct. 6, 1908
Osborne, Homer	Taber	855	Oct. 6, 1908
Orser, Harry	Calgary	883	Mar. 19, 1909
Olsen, Elmer A.	Prairie View	891	Mar. 24, 1909
Ostby, Anton	Strathmore	1027	Apr. 28, 1909
O'Brien, Roy	Raymond	1107	Sept. 15, 1909
Orr, Joshua	Irvine	1154	Sept. 28, 1909
Ostlund, Gustav	Stirling	1231	Mar. 15, 1910
O'Connell, Patrick B.	Raymond	1317	Apr. 7, 1910
Ohlson, Carl L.	Millarville	1409	May 19, 1910
Ohrn, Carl H.	Ohrnville	1557	Oct. 17, 1910
Omang, Carl A.	Stettler	1675	Mar. 24, 1911
Ostby, Charles	Mik River	1688	Mar. 29, 1911
Ormsen, Joseph J.	Ryley	1699	Mar. 31, 1911
Orr, Fred	Canmore	2280	May 22, 1912
Oliver, Robt. T.	Grassy Lake	1705	Mar. 31, 1911
O'Connor, Pat. J.	Carlstadt	1744	Apr. 10, 1911
Odell, Ed.	Calgary	1822	May 20, 1911
Ottewell, Arthur J.	Clover Bar	1894	Aug. 16, 1911
Olsen, J. Gilbert	Burdett	1915	Aug. 24, 1911
Olson, Albert Jos.	Coleman	2030	Jan. 16, 1912
O'Daniels, John W.	Coaldale	2064	Mar. 13, 1912
O'Rourke, John O.	Irma	2104	Mar. 25, 1912
Olberg, Christlan	Holden	2199	Apr. 24, 1912
O'Neil, Thomas A.	Mile 43	2238	Apr. 30, 1912
Ottewell, Wm. R.	Clover Bar	2264	May 8, 1912
Olson, Frank Oscar	Calgary	2346	July 18, 1912
Oxford, Stephen	Edmonton	2388	Sept. 27, 1912
Oaks, John W.	Edmonton	2430	Dec. 13, 1912
Pierce, Geo. J.	Red Deer	*46	Mar. 8, 1900
Pearce, Jas.	Edmonton	*81	Oct. 23, 1900
Putman, Albert E.	Edmonton	*202	Dec. 18, 1901
Powell, Jas. A.	Edmonton	*208	Dec. 18, 1901
Pearce, Wm.	Edmonton	*229	Apr. 23, 1902
Pimm, Jno.	Lethbridge	*258	Aug. 18, 1902
Pullshly, Wm.	Star	*384	June 23, 1903
Pullesen, Peter	Calgary	*492	Mar. 14, 1904
Piper, F. E.	Red Deer	*546	Apr. 18, 1904
Porter, Gerard A.	Red Deer (dup.)	*851	June 6, 1905
Peterson, Robt. F.	Wetaskiwin	*789	Mar. 27, 1905
Piegrass, Fred'k.	Raymond	24	Sept. 16, 1905
Pearson, Herbert S.	Red Deer	62	Dec. 29, 1905
Pefluger, Geo.	Wetaskiwin	98	Apr. 20, 1906
Peterson, Martin E.	Claresholm	179	Aug. 13, 1906
Pitmann, Wm. T.	Wetaskiwin	279	May 15, 1907
Pratt, Arthur W.	Three Hills	300	May 23, 1907
Patterson, Johnston	Strathcona	308	May 23, 1907
Pyle, Joshua	Langdon	354	June 4, 1907
Peterson, Alfred L.	Heather Brae	397	June 14, 1907
Phillips, Fred H.	Frank	476	July 15, 1907
Pylypow, Wasyl	Star	504	Oct. 15, 1907
Prehn, Emil N.	Strome	508	Oct. 15, 1907
Peterson, Fred. A.	Wetaskiwin	529	Oct. 28, 1907
Page, Sam. Jas.	Lacombe	532	Oct. 28, 1907

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Pethick, Roy W.	Okotoks	1331	Apr. 8, 1910
Pozin, Otto E.	Claresholm	577	Mar. 23, 1908
Peat, Geo. A.	Lethbridge	611	Apr. 8, 1908
Power, Eugene	Lethbridge	615	Apr. 8, 1908
Peat, Jas. T.	Lethbridge	619	Apr. 8, 1908
Phillips, Walter I.	Magrath	620	Apr. 9, 1908
Peters, Andy	Blairmore	621	Apr. 9, 1908
Peterson, Anton	Evarts	638	Apr. 14, 1908
Parker, Ed. W.	Innisfail	642	Apr. 14, 1908
Piersall, Wm. S.	Harmattan	646	Apr. 14, 1908
Putnam, Orlean E.	Edmonton	666	Apr. 27, 1908
Pfitzeumier, Herman	Stettler	687	May 1, 1908
Pail, Jos., Jr.	Prague	717	May 18, 1908
Phillips, Wm. J.	Clover Bar	725	May 18, 1908
Papineau, Francis C.	Battle Lake	727	May 18, 1908
Parker, David L.	Penhold	753	Sept. 3, 1908
Parmelee, J. M.	Bluff Centre	771	Sept. 14, 1908
Park, Hugh A.	Placington	785	Sept. 18, 1908
Parsons, Harry	Okotoks	1234	Mar. 15, 1910
Philpot, Jos.	Bawlf	807	Sept. 25, 1908
Podgarmy, Mike	Leduc	819	Sept. 28, 1908
Porter, Wm.	Stavely	838	Oct. 2, 1908
Peak Jos. H.	Pokahasset	870	Nov. 26, 1908
Payzant, Jno. M.	Edmonton	873	Dec. 23, 1908
Paul, Karl.....	Strathcona	880	Mar. 4, 1909
Prout, Thos. R.	Medicine Hat	904	Mar. 26, 1909
Peterson, Martin O.	Hicksburg	937	Apr. 2, 1909
Passmore, Thos. A.	Content	964	Apr. 25, 1909
Pouillot, Emil E.	Taber	1014	Apr. 25, 1909
Pickering, Geo.	Canmore	1030	Apr. 28, 1909
Pierce, Alfred	Lamont	1040	Apr. 29, 1909
Parsons, Henry	Lac Ste. Anne	1041	Apr. 29, 1909
Purmal, Jacob	Medicine Hat	1052	May 1, 1909
Paget, Thos. J.	Claresholm	1128	Sept. 21, 1909
Pallot, Harold E.	Edmonton	1212	Mar. 7, 1910
Powell, John	Lucky Strike	1233	Mar. 7, 1910
Paulsons, Paul	Lethbridge	1237	Mar. 15, 1910
Pattinson, Geo.	Frank	1254	Mar. 21, 1910
Parkin, David	Macleod	1268	Mar. 28, 1910
Piegras, Valdemar	Raymond	1318	Apr. 7, 1910
Pearson, Richard V.	Okotoks	1330	Apr. 8, 1910
Puntus, Frank	Airdrie	1340	Apr. 1, 1910
Paradis, Felix	Toffield	1349	Apr. 13, 1910
Parker, John W.	Bow Island	1379	Apr. 19, 1910
Perks, Chas.	High River	1410	Apr. 19, 1910
Phillips, Wm.	Calgary	1451	July 15, 1910
Purcell, Frank	Taber	1510	Sept. 21, 1910
Peterson, Emil	Heatherbrae	1538	Sept. 28, 1910
Parker, Ralph A.	Lewisville	1544	Oct. 7, 1910
Potter, John	Royton	1533	Oct. 17, 1910
Pearce, Gilbert E.	Edmonton	1561	Oct. 19, 1910
Parson, Howard E.	Pine Creek	1604	Jan. 20, 1911
Pike, Fred G.	Edmonton	168	Mar. 22, 1911
Pederson, S. M.	Warner	1689	Mar. 29, 1911
Prouty, Hiram	Lost Lake	1700	Mar. 31, 1911
Peterson, Soreng	Hand Hills	1745	Apr. 10, 1911
Porter, J. E.	Medicine Hat	1757	Apr. 15, 1911
Parnell, Fred. R.	Medicine Hat	1758	Apr. 15, 1911
Phillips, Harvey G.	Cardiff	1772	Apr. 21, 1911
Pratt, William W.	Ponoka	1856	June 17, 1911

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Thrd Class—Continued			
Pomarleau, Louis	Burdett	1857	June 20, 1911
Potter, Thomas	Raymond	1866	June 20, 1911
Palmer, Henry A.	Calgary	1902	Aug. 22, 1911
Pradon, Jean M.	Strathcona	1921	Aug. 25, 1911
Peterson, Peter	Warner	1948	Sept. 9, 1911
Parro, Louis	Lacombe	1990	Nov. 11, 1911
Pratt, Fred.	Lethbridge	2002	Nov. 17, 1911
Proughton, Donald G.	Elm Park	2010	Dec. 12, 1911
Palar, Henry	Warner	2065	Mar. 13, 1912
Perdue, Nelson	Toffield	2103	Mar. 25, 1912
Pittman, John W.	Warner	2151	Apr. 16, 1912
Pease, Fred	Milk River	2152	Apr. 16, 1912
Pratt, Fred	Camrose	2169	Apr. 20, 1912
Porter, Charles D.	Medicine Hat	2183	Apr. 23, 1912
Putnam, Philetus	Claresholm	2248	May 2, 1912
Patton, Jno. P.	Blairmore	2268	May 18, 1912
Parkening, Amil	Tilley	2347	July 18, 1912
Peterson, Peter	Edmonton	2366	Aug. 27, 1912
Pettley, Daniel R.	Taber	2370	Sept. 17, 1912
Pinckney, Fred	Medicine Hat	2371	Sept. 17, 1912
Pentzer, Henry W.	Calgary	2374	Sept. 19, 1912
Porter, Joshua	Wetaskiwin	2417	Nov. 12, 1912
Pilgrim, Hy. Howard	Edmonton	2431	Dec. 13, 1912
Palmer, Raymond N.	Calgary	2439	Dec. 18, 1912
Qulgley, Thos.	Cochrane	546	Nov. 22, 1907
Quigley, Jas. S.	Cochrane	874	Dec. 31, 1908
Quinn, Wm. B.	Edmonton	1188	Dec. 27, 1909
Quick, Elbert K.	Sundial	1237	Mar. 15, 1910
Quesseth, Geo. O.	Meeting Creek	1435	July 6, 1910
Quinlan, John A.	Hillcrest	2082	Mar. 18, 1912
Quick, Nels	Whitla	2188	Apr. 23, 1912
Robinson, Jno.	Edmonton	*26	Oct. 9, 1899
Rutherford, Jno.	Medicine Hat	1549	Oct. 17, 1910
Ross, Thos. G.	Poplar Lake	*97	Nov. 15, 1900
Ratray, Archle B.	Edmonton	*108	Dec. 15, 1900
Rafle, Andrew	Bon Accord	*301	Oct. 2, 1902
Ryan, James	Wetaskiwin	*316	Oct. 22, 1902
Redig, Valentine	Lacombe	*514	Apr. 18, 1904
Rivet, Arthur	Morinville	*549	May 26, 1904
Ramsay, Jas.	Coleman	620	Oct. 27, 1905
Rice, Geo. A.	Strathcona	39	Sept. 18, 1905
Rath, Edw. L.	Conjuring Creek	93	Apr. 11, 1906
Read, Edgar A.	Manfred	102	Apr. 20, 1906
Reese, Harry E.	Wetaskiwin	137	May 10, 1906
Roulston, Robt.	Bowden	160	May 31, 1906
Robearge, Wm.	Vegreville	215	Sept. 13, 1906
Rorem, T. A.	Duhamel	1760	Apr. 18, 1911
Rockstad, Abraham	Wetaskiwin	247	Oct. 5, 1906
Rath, Ernest W.	Conjuring Creek	277	May 15, 1907
Royle, Wm. H.	Calgary	347	June 4, 1907
Ramey, Morgan	Vegreville	382	June 14, 1907
Reay, Jno. G.	Lamerton	391	June 14, 1907
Roblnson, N. J.	DeWinton	425	June 19, 1907
Rydberg, Emil W.	Glenview	432	June 19, 1907
Richards, Wm.	Lundbreck	920	Mar. 30, 1909
Rice, Wm.	Andrew	500	Oct. 15, 1907
Rear, Chas. W.	Mayton	645	Apr. 14, 1908
Raymer, Ollver	Didsbury	653	Apr. 15, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Russell, Chas. O.	Brockville	695	May 6, 1908
Ramsey, Ralph H.	Vegreville	722	May 18, 1908
Rix, Percy H.	Wetaskiwin	728	May 26, 1908
Rattray, Alex.	Dog Pound	764	Sept. 11, 1908
Rude, Jno. N.	Priddis	804	Sept. 24, 1908
Ronaghan, Albert H.	Vermilion	820	Sept. 28, 1908
Reld, Jas. Robt.	Claresholm	839	Oct. 2, 1908
Rigby, Wm. T.	Claresholm	840	Oct. 2, 1908
Rills, Wilson, H.	Claresholm	841	Oct. 2, 1908
Richards, Neal S.	Aetna	857	Oct. 6, 1908
Rattray, Thos. A., Jr.	Edmonton	*550	May 26, 1904
Ritchie, John	Calgary	884	Mar. 19, 1909
Rothwell, John T.	Lethbridge	896	Mar. 24, 1909
Robinson, Wm.	Edmonton	940	Apr. 3, 1909
Russell, John	Gaetz Valley	947	Apr. 6, 1909
Rice, Augustus M.	Carmangay	972	Apr. 16, 1909
Riches, Chas. B.	Edmonton	984	Apr. 20, 1909
Redshaw, Arthur R.	Lethbridge	1055	May 3, 1909
Robinson, H. M.	Lethbridge	1059	May 4, 1909
Rundgren, John S.	Edmonton	1076	May 26, 1909
Robertson, Frank E.	Gleichen	1130	Sept. 21, 1909
Roy, Jos. R.	Stony Plain	147	Sept. 25, 1909
Reimer, Henry H.	Neapolis	1200	Mar. 4, 1910
Romell, Geo. H.	Stirling	1238	Mar. 15, 1908
Reilly, Thos.	Coal City	1239	Mar. 15, 1910
Richards, Peter W.	Lethbridge	1240	Mar. 15, 1910
Rice, Aaron R.	Claresholm	1279	Mar. 29, 1910
Ross, John P.	Granum	1282	Mar. 30, 1910
Reed, David	Rimbey	1294	Apr. 1, 1910
Robertson, Geo. H.	Hamilton	1397	Apr. 25, 1910
Ritchie, Wm. O.	Strathcona	1444	July 14, 1910
Roberts, Edward Ivor	Strathcona	1445	July 14, 1910
Rhimes, Robt.	Calgary	1458	Aug. 8, 1910
Roth, Chas.	Strome	1461	Aug. 15, 1910
Robertson, Mark W.	Kitscoty	1462	Aug. 24, 1910
Robertson, Jas. M.	Calgary	1527	Sept. 23, 1910
Reld, John E.	Eagle Butte	1535	Sept. 24, 1910
Robertson, Alex.	Calgary	1600	Jan. 13, 1911
Reed, Edwin L.	Passburg	1603	Jan. 14, 1911
Remington, Otto C.	Milk River	1690	Mar. 29, 1911
Restfall, Fred.	Bassano	1746	Apr. 10, 1911
Rolfson, Sam. G.	Comrey	1789	Apr. 24, 1911
Rorney, Andrew	Noble	1790	Apr. 24, 1911
Rauds, Harry	Macleod	1791	Apr. 24, 1911
Radway, Orlando S.	Radway Centre	1816	May 18, 1911
Rawson, George	Suffield	1836	May 26, 1911
Rolfe, Lyman	Bow Island	1867	June 20, 1911
Raw, Frank	Calgary	1883	July 19, 1911
Rusk, Andrew P.	New Dayton	1916	Aug. 24, 1911
Richfield, Floyd I.	Macleod	1917	Aug. 24, 1911
Rice, Martin	Grassy Lake	1949	Sept. 9, 1911
Radloff, Adolff	Edmonton	1965	Oct. 18, 1911
Richards, Thomas	Calgary	2042	Feb. 14, 1912
Ramsay, Wm. John	Lethbridge	2066	Mar. 13, 1912
Roland, Geo.	Lille	2083	Mar. 18, 1912
Rich, George	Granum	2094	Mar. 22, 1912
Robertson, Mark W.	Cardiff	2105	Mar. 25, 1912
Ramsay, Robert	Strathcona	2118	Apr. 1, 1912
Rasmussen, Arnold	Standard	2134	Apr. 4, 1912
Reynolds, Geo. P.	Ferintosh	2170	Apr. 20, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Roman, Ned	Thelma	2184	Apr. 23, 1912
Reed, Guy	Irma	2200	Apr. 24, 1912
Ross, Wm. Hope	Calgary	2211	Apr. 26, 1912
Roberts, John	Calgary	2212	Apr. 26, 1912
Rowell, James	Calgary	2213	Apr. 26, 1912
Rizzuto, Thomas	Edmonton	2221	Apr. 29, 1912
Reedholm, Victor	Edmonton	2237	Apr. 30, 1912
Ross, Robert McKay	Innisfail	2260	May 3, 1912
Robinson, Miles H.	Calgary	2281	May 22, 1912
Rutherford, Chas. E.	Bickerdike	2291	May 29, 1912
Roberts, David O.	Strathcona	2292	May 29, 1912
Rhodes, Edgar	Calgary	2302	June 11, 1912
Rich, Lewis B.	Brocket	2307	June 14, 1912
Ritchie, John R.	Atha. Landing	2323	June 28, 1912
Robin, Victor E.	Edson	2378	Sept. 20, 1912
Robinson, Elwin D.	St. Albert	2379	Sept. 20, 1912
Rimmer, George	Calgary	2440	Dec. 18, 1912
Stadelbauer, Simon	Spruce Grove	*4	Sept. 18, 1899
Stewart, Thos. H.	Strathcona	*30	Oct. 9, 1899
Smith, Wm. F.	Athabasca Landing	*38	Nov. 28, 1899
Shaw, Jno. Y.	Midnapore	*40	Dec. 1, 1899
Saunders, Elias T.	Lethbridge	*47	Mar. 23, 1900
Snider, Jno. B.	Okotoks	*68	July 19, 1900
Steffles, Fred	Morinville	*90	Nov. 15, 1900
Schlegel, Frank	Duhamel	*118	Jan. 26, 1901
Stewart, Archie	Edmonton	*161	Sept. 7, 1901
Stulz, Frank	St. Albert	*196	Dec. 18, 1901
Staffles, Jos.	Morinville	*91	Nov. 15, 1900
Simpson, Robt. N.	Edmonton	*198	Dec. 18, 1901
Smith, Sam. W.	Leduc	*228	Apr. 23, 1902
Still, Wm.	Vegreville	*328	Dec. 18, 1902
Stewart, Jas. A.	Beaver Lake	*329	Dec. 18, 1902
Shields, Wm. K.	Strathcona	*363	May 13, 1903
Smith, Larent E.	Ponoka	*387	July 13, 1904
Schatz, Robt.	Strathcona	*635	Oct. 15, 1904
Swift, W. L.	Edmonton	*647	Oct. 15, 1904
Sloan, Wm. J.	Calgary	*145	May 1906
Swingle, Walter A.	Didsbury	*751	Mar. 24, 1905
Scott, Geo. W.	Innisfail	*758	Mar. 24, 1905
Spannel, Jno.	Leduc	*796	Mar. 27, 1905
Scott, Sam R.	Olds	*797	Mar. 28, 1905
Stafford, Jno.	Sollman	*817	Apr. 14, 1905
Short, Walker	Mewassin	*826	May 13, 1905
Scullli, Angelo	Lille	1453	Aug. 25, 1910
Skouson, Z. N.	Raymond	21	Sept. 16, 1905
Skouson, Peter N.	Raymond	25	Sept. 16, 1905
Sherwood, L. H.	Beaumont	29	Sept. 16, 1905
Swedfeger, Amos	Leduc	41	Sept. 18, 1905
Svarich, Peter	Kolomea	76	Mar. 26, 1906
Suru, Jno	Edmonton	78	Mar. 26, 1906
Schroeder, Ed. H.	High River	120	Apr. 30, 1906
Sherlin, Adam	Red Deer	128	Mar. 4, 1906
Smith, Chas. W.	Foreman	131	May 10, 1906
Stephenson, Jas. McC.	Innisfail	155	May 31, 1906
Speakman, Alfred	Penhold	159	May 31, 1906
Sanders, T. Aron	Cardston	166	Aug. 11, 1906
Stephens, Jas.	Frank	175	Aug. 13, 1906
Stannk, Isadore	Frank	176	Aug. 13, 1906
Stillman, Geo. F.	Spring Point	181	Aug. 13, 1906

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Stuckney, Richard	Pincher Creek	185	Aug. 13, 1906
Scribner, Jos.	Leavings	190	Aug. 13, 1906
Smith, Jno. H.	Nanton	195	Aug. 13, 1906
Stevens, H. E.	Macleod	202	Aug. 13, 1906
Smith, David H.	Calgary	206	Aug. 25, 1906
Somerset, Robt. N.	Vermilion	210	Sept. 13, 1906
Smith, Jno.	Pakan	240	Sept. 27, 1906
Stevens, Harry L.	Olds	211	Sept. 13, 1906
Small, Jesse J.	Didsbury	243	Sept. 26, 1906
Scarth, Walter	Calgary	269	Apr. 29, 1906
Sanrock, J. M.	Edmonton	269	Apr. 29, 1907
Sorenson, Nels G.	Kellman	283	May 15, 1907
Smith, Chas. A.	Red Deer	285	May 15, 1907
Smith, Sam. T.	Leslieville	287	May 20, 1907
Schmidt, Henry W.	Red Deer	288	May 20, 1907
Salzl, Rudolph	Morinville	307	May 23, 1907
Swingle, Gala R.	Didsbury	310	May 29, 1907
Scott, Wm.	Three Hills	321	May 29, 1907
Stagg, Jno. C.	Calgary	805	Sept. 22, 1908
Stearns, Chas. A.	Carstairs	356	June 4, 1907
Siddall, Wm. M.	Neapolis	360	June 4, 1907
Saunders, Abraham	Lacombe	372	June 7, 1907
Stevens, Clostin H.	Ersrine	378	June 7, 1907
Swan, Jno.	Wessington	379	June 7, 1907
Scoville, Wm. A.	Earling	413	June 14, 1907
Schattschneider, Herman	Ellerslie	415	June 14, 1907
Sinclair, Donald	Cayley	422	June 19, 1907
Sallendach, Robt.	Brant	427	June 19, 1907
Sparrow, Jas. W.	Lethbridge	440	June 20, 1907
Stuenkel, Jas. F.	Claresholm	452	July 15, 1907
Svean, Ole	Claresholm	483	Aug. 13, 1907
Salmon, Jno. F.	Raymond	458	July 15, 1907
Spencer, Jno. H.	Medicine Hat	480	July 24, 1907
Somerset, Thos. B.	Edmonton	494	Oct. 15, 1907
Sanrock, Harvey S.	Edmonton	498	Oct. 15, 1907
Skolitzky, Jno. J.	Calgary	520	Oct. 24, 1907
Spreeman, Allen	Didsbury	522	Oct. 24, 1907
Sklrkey, Jno. W.	Lacombe	534	Oct. 28, 1907
Simmonds, Henry	Banff	547	Nov. 26, 1907
Stanworth, Stephen	Bankhead	549	Dec. 5, 1907
St. George, Stephen	Macleod	607	Apr. 8, 1908
Schroeder, Waldemer	Macleod	604	Apr. 8, 1908
Simpson, David A.	Macleod	622	Apr. 9, 1908
Sorenson, Willard	Leavitt	629	Apr. 9, 1908
Speight, Frank	Red Deer	637	Apr. 14, 1908
Sawatzky, Bernard P.	Didsbury	650	Apr. 15, 1908
Slater, Alfred	Medicine Hat	661	Apr. 27, 1908
Saunders, Wallace	Conjuring Creek	674	Apr. 27, 1908
Stearns, Harvey N.	Innisfree	679	Apr. 27, 1908
Scoonover, Frank	Content	688	May 1, 1908
Story, Hillard M.	Talbot	692	May 6, 1908
Stinson, Fred	Hastings Coulee	706	May 18, 1908
Svarich, And.	Vegreville	723	May 18, 1908
Snyder, Jacob F.	Magrath	749	Aug. 26, 1908
Sanborn, Francis A.	Innisfail	758	Sept. 8, 1908
Stephen, J. G.	Edmonton	780	Sept. 18, 1908
Sheffiel, David	Edmonton	821	Sept. 21, 1908
Shandro, Andrew S.	Shandro	822	Sept. 28, 1908
Stafford, Geo. F.	Pincher Creek	858	Oct. 6, 1908
Steinhauer, Augustine	Saddle Lake	866	Oct. 27, 1908

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Smith, Anthony A.	Knee Hill	889	Mar. 20, 1909
Steeves, Lorne W.	Lethbridge	894	Mar. 24, 1909
Schwartz, Chas.	Lille	921	Mar. 30, 1909
Suitor, Wm.	Gladys	938	Apr. 2, 1909
Stroud, W. D.	Crossfield	948	Apr. 6, 1909
States, John G.	Carstairs		
Smedstad, John	Claresholm	949	Apr. 6, 1909
Schumers, Louis	Willing	973	Apr. 16, 1909
Stern, Fred	Bawlf	992	Apr. 20, 1909
Stenberg, Fred	Harland	1002	Apr. 22, 1909
Snyder, Chas. G.	Calgary	1003	Apr. 22, 1909
Scott, Geo. T.	Gleichen	1028	Apr. 28, 1909
Scarr, Jos. A.	Bankhead	1029	Apr. 28, 1909
Sampert, Julius	Bruderheim	1342	Apr. 11, 1910
Scott, Fred	Strathcona	1042	Apr. 29, 1909
Schaumleffel, John	Lloydminster	1068	May 21, 1909
Stein, Philip	Lethbridge	1069	May 21, 1909
Stubbs, Albert W.	Medicine Hat	1073	May 26, 1909
Scarfe, Wm. H. T.	Innisfail	1082	June 18, 1909
Sheppard, Frank H.	Wetaskiwin	1090	Aug. 24, 1909
Samis, Chas.	Calgary	1096	Sept. 7, 1909
Schench, Wm. A.	Thigh Hill	1133	Sept. 21, 1909
Simon, Herbert	Nanton	1134	Sept. 21, 1909
Sommersgill, Robt.	Calgary	1135	Sept. 21, 1909
Spencer, Fred.	Cardston	1141	Sept. 24, 1909
Smith, John	Kitscoty	1148	Sept. 25, 1909
St. John, Myron	Edmonton	1166	Sept. 29, 1909
Sinclair Clarence	Coaldale	1242	Mar. 15, 1910
Smith, Leslie E.	Lethbridge	1243	Mar. 15, 1910
Schinnour, Gustav.	Grassy Lake	1244	Mar. 15, 1910
Stuckey, Wilfred F.	Pincher Creek	1262	Mar. 21, 1910
Sheffield, Geo.	Macleod	1269	Mar. 28, 1910
Strey, Nelson	Lacombe	1295	Apr. 1, 1910
Snyder, Perry	Pakan	1311	Apr. 6, 1910
Symon, Lindsay	Edmonton	1811	May 16, 1910
Saville, Walter G.	Calgary	1341	Apr. 11, 1910
Steven, Robt. T.	Strathcona	1350	Apr. 13, 1910
Sparks, Geo. A.	Edmonton	1351	Apr. 13, 1910
Smith, Oscar H.	Lethbridge	1364	Apr. 14, 1910
Stone, Wm. N.	Langdon	1380	Apr. 21, 1910
Spencer, Geo.	Calgary	1402	Apr. 28, 1910
Sagomen, Peter E.	Chauvin	1406	May 17, 1910
Silver, John A.	Lethbridge	1413	May 21, 1910
Stallworthy, Wm.	Calgary	1430	June 14, 1910
Savage, Wm. John	Cardston	1438	July 8, 1910
Smith, Henry	Calgary	1456	Aug. 4, 1910
Selwood, Wm. H.	Welsdale	1463	Aug. 24, 1910
Scott, Michael D.	Cayley	1489	Sept. 6, 1910
Sand, Oscar L.	Dina	1505	Sept. 21, 1910
Stewart, Wm. A.	Gilpin	1506	Sept. 21, 1910
Spencer, Thos. E.	Wetaskiwin	1545	Oct. 7, 1910
Shantz, Alson S.	Didsbury	1554	Oct. 17, 1910
Stobbs, Henry	Medicine Hat	1571	Oct. 20, 1910
Smith, John K.	Calgary	1576	Oct. 20, 1910
Smeltzer, Geo. E.	Taber	2160	Apr. 19, 1912
Steeves, Robert	Cleversville	1540	Oct. 3, 1910
Steeves, Robert	Cleversville	1841	May 26, 1911
Snyder, Amasa	Edmonton	1607	Jan. 23, 1911
St. Peter, Moses	Macleod	1639	Mar. 15, 1911
Synder, Clarence E.	Pincher Creek	1640	Mar. 15, 1911

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Stilling, Samuel K.	Three Hills	1658	Mar. 20, 1911
Sergeant, Ed. D.	Calgary	1659	Mar. 20, 1911
Saunders, Chas. O.	Okotoks	1660	Mar. 20, 1911
Stanley, Sans. E.	Calgary	1661	Mar. 20, 1911
Store, William	Calgary	1662	Mar. 20, 1911
Sheardown, Henry	Lorraine	1676	Mar. 24, 1911
Solie, Halbert L.	Warner	1691	Mar. 29, 1911
Sweet, Charles	Grassy Lake	1707	Mar. 31, 1911
Smyrick, Jos.	Grassy Lake	1708	Mar. 31, 1911
Stephens, S. E.	Ponoka	1723	Apr. 5, 1911
Skallin, Olaf	Pretty Hill	1724	Apr. 5, 1911
Shernak, Chas. J.	Camrose	1725	Apr. 5, 1911
Scott, John S.	Bashaw	1726	Apr. 5, 1911
Seward, Gale	Strome	1727	Apr. 5, 1911
Shields, David W.	Carlstadt	1747	Apr. 10, 1911
Schroeder, Alex.	Beaver Hills	1773	Apr. 21, 1911
Smith, Thomas M.	Edmonton	1774	Apr. 21, 1911
Smith, J. Edgar	Noble	1794	Apr. 24, 1911
Schrieber, John	Taber	1793	Apr. 24, 1911
Stephens, Samuel	Carmangay	1799	Apr. 26, 1911
Stewart, Joseph	Irricana	1808	May 6, 1911
Soetje, Henry	Chinook	1824	May 20, 1911
Smith, Albert A.	Magrath	1839	May 26, 1911
Spangrud, Emil	Pincher Creek	1940	May 26, 1911
Smiley, Levy	Calgary	1852	June 13, 1911
Stackhouse, Wm. C.	Edmonton	1869	June 26, 1911
Sebern, Horance E.	Edmonton	1872	July 12, 1911
Smeaton, Andrew	Calgary	1903	Aug. 22, 1911
Sorenson, Charles	Lethbridge	1918	Aug. 24, 1911
St. Peter, J. F.	Diamond City	2361	Aug. 14, 1912
Stevens, George N.	Calgary	1939	Sept. 8, 1911
Skelton, Fred A.	Wheat Centre	1950	Sept. 9, 1911
Slevinski, Alex.	Mundare	1956	Sept. 9, 1911
Spallin, Joseph	Fort Saskatchewan	1957	Sept. 9, 1911
Selwood, Wm. H.	Clover Bar	1966	Oct. 18, 1911
Shields, Jas. R.	Edmonton	1987	Nov. 10, 1911
Smith, Samuel George	Huxley	2003	Nov. 25, 1911
Smith, John	Edmonton	2022	Dec. 31, 1911
Sommers, Delbert	Lawrence	1241	Mar. 15, 1910
Sommers, Delbert	Lawrence	2153	Apr. 16, 1912
Shidler, Elmer H.	Cardston	1319	Apr. 7, 1910
Shidler, Elmer H.	Cardston	2033	Feb. 14, 1912
Schrieber, William	Eyremore	1709	Mar. 31, 1911
Schrieber, William	Eyremore	2159	Apr. 19, 1912
Stoner, Orville W.	Strathcona	1922	Aug. 25, 1912
Stoner, Orville W.	Strathcona	2106	Mar. 25, 1912
Scott, Wilbert W.	Summerview	2084	Mar. 18, 1912
Scott, Frank	Gleichen	2132	Apr. 4, 1912
Sears, Thomas	Dalroy	2133	Apr. 4, 1912
Spoucler, W. J.	Reid Hill	2154	Apr. 16, 1912
Sand, Elmer N.	Edburg	2171	Apr. 20, 1912
Strong, Ross D.	Burdett	2185	Apr. 23, 1912
Scully, Daniel	Seven Persons	2186	Apr. 23, 1912
Sillib, Walter	Whitlaw	2187	Apr. 23, 1912
Sinclair, E. R.	Medicine Hat	2189	Apr. 23, 1912
Stuart, James E.	Edmonton	2227	Apr. 29, 1912
Stuart, James E.	Edmonton	2390	Sept. 27, 1912
Smart, Charles C.	Crossfield	2240	May 1, 1912
Strang, Andrew R.	Carbon	2241	May 1, 1912
Stuart, Wm. G.	Coaldale	2245	May 2, 1912

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Thlrd Class—Continued			
Sherret, Charles	Lethbridge	2249	May 2, 1912
Stewart, Andrew	Calgary	2282	May 22, 1912
Skark, Jans.	Calgary	2283	May 22, 1912
Smith, Jno. Wesley	Calgary	2303	June 11, 1912
Sherwood, Ralph O.	St. Albert	2319	June 17, 1912
Schafer, Melvan O.	Edmonton	2335	July 16, 1912
Scarr, Claude J.	Bankhead	2348	July 18, 1912
Spencer, James	Calgary	2373	Sept. 19, 1912
Silver, William	St. Albert	2380	Sept. 20, 1912
Stingle, Albert W.	Edmonton	2389	Sept. 27, 1912
Stone, William	Edmonton	2395	Oct. 7, 1912
Scanlin, Edward	Bassano	2403	Oct. 19, 1912
Trimble, H. W.	Red Deer	*195	Dec. 18, 1901
Townsend, R. C.	Canmore	*314	Oct. 20, 1902
Turner, Leonard J.	Gleichen	469	Nov. 6, 1908
Terry, Peter	Okotoks	*470	Nov. 6, 1903
Turnbull, Robt.	Strathcona	*519	Apr. 8, 1904
Trussler, A. E.	Highland Park	*612	Sept. 27, 1904
Tennison, Jno. C.	Leduc	*722	Mar. 3, 1905
Tribel, Clarence A.	Red Deer	*782	Mar. 24, 1905
Tillapaugh, Jno.	Warwick	48	Sept. 23, 1905
Tanner, Wm. Jos.	Raymond	15	Sept. 16, 1905
Thomas, A. I.	Frank	890	Mar. 24, 1909
Treasure, Sam.	Claresholm	58	Dec. 19, 1905
Tremblay, Miles I.	Edmonton	73	Mar. 26, 1906
Taylor, David A.	Red Deer	162	July 7, 1906
Tufts, Josiah	Taber	187	Aug. 13, 1906
Turner, Ernest H.	Warwick	214	Sept. 3, 1906
Towers, Fred J.	Red Deer	299	May 20, 1907
Traub, Wm.	Didsbury	325	May 29, 1907
Telford, Ernest E.	Vermillion	330	May 31, 1907
Tennant, Wm. J.	Calgary	350	June 4, 1907
Thompson, Geo. A.	Red Willow	374	June 7, 1907
Tiede, August	Stettler	375	June 7, 1907
Trussler, A. D.	Strathcona	416	June 14, 1907
Thrum, Chas. W.	High River	433	June 19, 1907
Turner, Geo. H.	Taber	445	July 15, 1907
Tucker, Glines	Stavelly	1843	May 29, 1911
Tollestrup, Christian F.	Raymond	472	July 15, 1907
Thwaytes, Lance'ot	Edmonton	497	Oct. 15, 1907
Tewsley, Jas. S.	Carstairs	525	Oct. 24, 1907
Thompson, Thos. G.	Edmonton	589	Apr. 2, 1908
Turnbull, W. N.	Penhold	634	Apr. 14, 1908
Taylor, Orrin O.	Harmattan	647	Apr. 14, 1908
Tidball, Wm. E.	Carstairs	651	Apr. 15, 1908
Taylor, Wm. L.	Killam	705	May 18, 1908
Thronson, Theo.	Camrose	714	May 18, 1908
Teardiff, Jos. E.	Fort Vermillion	743	Aug. 6, 1908
Toeys, Cornelius F.	Stern	765	Sept. 11, 1908
Tronnes, Peter	Dorendee	808	Sept. 2, 1908
Todd, Walker	Macleod	1270	Mar. 28, 1910
Taylor, Wm. J.	Lochinvar	976	Apr. 17, 1909
Trono, Louis	Canmore	1032	Apr. 28, 1909
Trono, Emile	Canmore	1033	Apr. 28, 1909
Townsend, Leon E.	Stirling	1085	July 16, 1909
Thomas, Wm. H.	Lloydminster	1167	Sept. 29, 1909
Todd, Wm.	Edmonton	2053	Feb. 29, 1912
Tillapaugh, John E.	Vegreville	1169	Sept. 29, 1909
Tanner, Jas.	Macleod	1272	Mar. 28, 1910

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Taylor, Henry G.	Ponoka	1296	Apr. 1, 1910
Toward, James B.	Bankhead	2054	Mar. 12, 1912
Thomas, Emery R.	Carlstadt	1398	Apr. 25, 1910
Tessler, Geo. A.	Ena	1431	June 14, 1910
Toppin, Samuel S.	Calgary	1459	Aug. 15, 1910
Tupper, Roy O.	Kipp	1483	Sept. 1, 1910
Turner, Philip R.	Fort Saskatchewan ...	1518	Sept. 21, 1910
Thomas, Wm.	Bassano	2004	Nov. 24, 1912
Todd, Robt.	Strathcona	1562	Oct. 19, 1910
Tharp, Chancey L.	Taber	1572	Oct. 20, 1910
Tomfohr, Geo.	Milk River	1587	Nov. 17, 1910
Thompson, Henry	Castor	1677	Mar. 24, 1911
Tennis, Lloyd	Homeglen	1678	Mar. 24, 1911
Taylor, John W.	Lethbridge	1692	Mar. 29, 1911
Thoreson, Thos. L.	Holden	1700	Mar. 31, 1911
Tingley, Alex. B.	Blackfoot	1701	Mar. 31, 1911
Turnell, Reese W.	Three Hills	1728	Apr. 5, 1911
Towler, John W.	Sedgewick	1729	Apr. 5, 1911
Taylor, Frank S.	Carlstadt	1748	Apr. 10, 1911
Thillet, Claud	Calgary	1823	May 20, 1911
Thompson, And. J.	Lethbridge	1837	May 26, 1911
Thielen, Joseph	Milk River	1838	May 26, 1911
Toews, Peter L.	Stern	1904	Aug. 22, 1911
Tollestrup, Rudolph W.	Raymond	2420	Nov. 13, 1912
Trail, Herbert	Calgary	1996	Nov. 16, 1911
Thompson, Gordon B.	Strathcona	2011	Dec. 11, 1911
Thompson, Chas.	Red Deer	297	May 20, 1907
Thompson, Chas.	Red Deer	2337	July 17, 1912
Thompson, James	Innisfail	2034	Feb. 14, 1912
Thompson, Frank L.	Macleod	1271	Mar. 28, 1910
Thompson, Frank L.	Macleod	2085	Mar. 18, 1912
Thompson, Robson	Calgary	2027	Jan. 16, 1912
Teighton, Roy F.	Wetaskiwin	2050	Feb. 23, 1912
Tupper, Leon H.	St. Albert	2107	Mar. 28, 1912
Topper, George	Nanton	2113	Mar. 28, 1912
Taylor, Roy	Dolcy	2146	Apr. 10, 1912
Tubbs, Allie	Taber	2161	Apr. 19, 1912
Thomas, Alfred Ernest	Edmonton	2320	June 17, 1912
Taylor, Stead	Strathcona	2321	June 17, 1912
Thorp, Fred. Wm.	Calgary	2415	Nov. 12, 1912
Utter, Frank C.	Whitecourt	2051	Feb. 29, 1912
Underpool, Joseph W.	Calgary	2043	Feb. 14, 1912
Utas, Peter	Wetaskiwin	*331	Feb. 13, 1903
Umbach, Wm.	Spruce Grove	*357	May 13, 1903
Umbach, Jno. H.	Spruce Grove	67	Mar. 16, 1906
Urback, Albert F.	Calgary	258	Jan. 22, 1907
Umbach, Edgar A.	Spruce Grove	656	Apr. 22, 1908
Underwood, Harry A.	Emsbury	689	May 1, 1908
Ullman, Albert	Granum	842	Oct. 2, 1908
Vogel, Wilhelm	Strathcona	*22	Oct. 2, 1899
VanMeter, Chas. E.	Millet	*212	Dec. 18, 1901
Vanacker, Louis	St. Albert	*373	May 13, 1903
Vig, Oscar O.	Bentley	763	Mar. 24, 1905
Veeder, Robt. B.	Wetaskiwin	*791	Mar. 27, 1905
VanSellick, Jacob	Edmonton	32	Sept. 16, 1905
Van Wegan, Louis	Raymond	42	Sept. 18, 1905
Vogel, Ferdinand	Strathcona	2293	May 29, 1912
Vig, Casper O.	Bentley	110	Apr. 25, 1906

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Vaughan, Frank	Calgary	336	June 14, 1907
VanWinkle, Howard	High River	430	June 19, 1907
VanWinkle, Chester A.	High River	439	June 19, 1907
Venables, Wm.	Medicine Hat	482	Aug. 1, 1907
Veith, F. Wm.	Inga	490	Oct. 15, 1907
Vesseur, Moses	Sylvan Lake	1194	Feb. 21, 1910
Vlasak, Rudolph	Wessington	539	Oct. 28, 1907
Vandburgh, Jas. N.	Calgary	587	Mar. 23, 1907
Vanyel, Chas.	Edmonton	597	Apr. 2, 1908
Vanderford, Sylvester A.	Stettler	1297	Apr. 1, 1910
Vint, Francis	Stettler	1298	Apr. 1, 1910
Varembo, Olaf H.	Camrose	1546	Oct. 7, 1910
VanMeter, Jacob A.	Millet	823	Sept. 29, 1908
Valentine, Marcon F.	Bellevue	924	Mar. 30, 1909
Vaughn, Clifford E.	Wetaskiwin	1097	Sept. 7, 1909
VanKluck, Alerie	Reid Hill	1136	Sept. 21, 1909
Von Wald, Ernest C.	Stavely	1952	Sept. 9, 1911
Vincent, Robert W.	Coleman	2086	Mar. 18, 1912
Varty, Herbert H.	La Pearl	2147	Apr. 10, 1912
Van Der Doorn, Ant. E.	Medicine Hat	2190	Apr. 23, 1912
Van Der Velde, M.	Langdon	2214	Apr. 26, 1912
Witmer, Abram	Strathcona	*29	Oct. 9, 1899
Wilson, Jas.	Calgary	65	July 19, 1900
Wulff, Nick	Edmonton	1082	July 13, 1909
Walker, Robt.	Edmonton	*251	Aug. 18, 1902
Weder, Frank	Beaver Hills	*462	Oct. 28, 1903
Wells, Chas.	Rosenroll	*517	Apr. 18, 1904
Wardrop, Jno. L.	East Clover Bar	*640	Oct. 15, 1904
Will, Louis	Bankhead	*682	Jan. 3, 1905
Wilkinson, Richard	Olds	*754	Mar. 24, 1905
Whitcotton, Robt. M.	Lacombe	164	July 14, 1906
Wilson, Wm. Jos.	Coleman	9	Sept. 16, 1906
Wallace, W. J.	Macleod	12	Sept. 16, 1905
Wood, Wm. F.	Tofield	44	Sept. 18, 1905
Whalen, Jas.	Edmonton	69	Mar. 1, 1906
Wetterbeig, Theo.	Canmore	100	Apr. 20, 1906
Watts, Sam	Lacombe	103	Apr. 24, 1906
Werner, Wm. Fred	Red Deer	108	Apr. 24, 1906
Waymark, Richard T.	Calgary	123	Apr. 30, 1906
Whitaker, Wm.	Edmonton	129	May 4, 1906
Walker, Robt. T.	Strathcona	134	May 10, 1906
Wisler, Oliver P.	Stettler	136	May 10, 1906
Webber, Alfred	Medicine Hat	2141	Apr. 23, 1912
Wickens, J. A.	Cayley	199	Aug. 13, 1906
Wright, Bruce M.	Calgary	205	July 30, 1906
Watters, Wm. E.	Strathcona	277	Sept. 20, 1906
Wynn, Robt.	Kneehill Valley	291	May 20, 1907
Wood, Rex. R.	Carstairs	309	May 29, 1907
Wacker, Grover	Rawdonville	322	May 29, 1907
Webster, Robt. J.	Marwayne	390	June 14, 1907
Walkermeyer, Wm.	Heatherbrae	396	June 14, 1907
Wilcox, Isaac A.	High River	423	June 19, 1907
Wilson, Archibald	Brant	1465	Aug. 10, 1910
Wilderman, Raymond A.	High River	437	June 19, 1907
Walters, Wm.	Claresholm	864	Oct. 24, 1908
Wilcocks, Wm.	Lethbridge	475	July 15, 1908
Watson, Walter J.	Claresholm	578	Mar. 23, 1908
White, Jack	Calgary	585	Mar. 23, 1908
Wright, Merit E.	Edmonton	593	Apr. 2, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
White, Geo. T.	Red Deer	639	Apr. 14, 1908
Williams, Frank T.	Crossfield	682	May 1, 1908
Winkleman, Jules	Leduc	711	May 18, 1908
Wilbert, Chas.	Wetaskiwin	721	May 28, 1908
Walker, Preston	Lacombe	772	Sept. 14, 1908
Watson, P.	Edmonton	781	Sept. 18, 1908
Wentworth, Wm.	Okotoks	806	Sept. 22, 1908
Wilson, Bert M.	Nanton	843	Oct. 2, 1908
Wright, Leroy H.	Cardston	859	Oct. 6, 1908
Wilson, Chas. O.	Spring Coulee	803	Oct. 21, 1908
Wallwork, Jas.	Taber	903	Mar. 24, 1909
Webster, Alexr.	Pincher Creek	933	Apr. 1, 1909
Weber, Noah R.	Carstairs	950	Apr. 6, 1909
Watts, Geo.	Macleod	957	Apr. 9, 1909
Wilson, Andrew W.	Vegreville	985	Apr. 20, 1909
Walker, Edgar N.	Mundare	986	Apr. 20, 1909
Wilson, Jos. W.	Edmonton	987	Apr. 20, 1909
Wyman, Clark I.	Magrath	1007	Apr. 25, 1909
Walker, Chas. H.	Warner	1008	Apr. 25, 1909
Williams, Edgar H.	Bankhead	1034	Apr. 28, 1909
Woodcock, Frank F.	Medicine Hat	1155	Sept. 28, 1900
Wiltzen, Martin	Chipman	1043	Apr. 29, 1909
White, Edward	Lethbridge	1056	May 3, 1909
Winter, Archibald	Strathcona	1072	May 21, 1909
Weisser, Christian B.	Camrose	1094	Sept. 7, 1909
West, Wm. A.	Mewassin	1099	Sept. 13, 1909
White, Thos. J.	Stirling	1108	Sept. 15, 1909
Wick, Anton	Lineham	1137	Sept. 21, 1909
Wilson, Aura L.	Carstairs	1138	Sept. 21, 1909
Wood, Roy J.	Carstairs	1139	Sept. 21, 1909
Wolanskey, John	Edmonton	1149	Sept. 25, 1909
Wonnop, Jos. L.	Lawrence	1156	Sept. 28, 1909
Watt, Geo.	Strathcona	1184	Dec. 4, 1909
White, Chris., Jr.	Red Deer	1201	Mar. 3, 1910
Williams, Albert	Magrath	1245	Mar. 15, 1910
Wilson, Clifford	Camrose	1299	Apr. 1, 1910
Watson, Fredk.	Bankhead	2441	Dec. 18, 1912
Watson, Robt.	Edgerton	1352	Apr. 13, 1910
Wilson, Rufus B.	Tofield	1354	Apr. 13, 1910
Woods, Henry	Warner	1365	Apr. 14, 1910
White, Jas. Albert	Lethbridge	1366	Apr. 14, 1910
Wilson, Robt.	Medicine Hat	1399	Apr. 25, 1910
Wooley, Norman	Medicine Hat	1759	Apr. 15, 1911
Whitehead, Martin	Banff	1432	June 14, 1910
Woods, Harry	Lethbridge	1439	July 8, 1910
White, John W.	Brooks	1452	July 15, 1910
Walker, John A.	Warren	1490	Sept. 7, 1910
Wagner, A. C. L.	Calgary	1529	Sept. 23, 1910
Wilson, John L.	Bassano	1530	Sept. 23, 1910
Wilson, Wm. John	Angus Ridge	1547	Oct. 7, 1910
Wocknitz, Paul	Magrath	1573	Oct. 20, 1910
Wessenger, Ray	Medicine Hat	1574	Oct. 20, 1910
		1749	Apr. 12, 1911
Wolfe, John W.	Edmonton	1588	Nov. 21, 1910
Williams, Chas. A.	Calgary	1595	Dec. 15, 1910
Williams, A'fred L.	Calgary	1596	Dec. 15, 1910
Weston, Thomas W.	Hillcrest	2118	Apr. 1, 1912
Watson, Wilfred G.	Calgary	1663	Mar. 20, 1911
Wallace, Richard R.	Lloydminster	1669	Mar. 22, 1911
White, Wm. R.	Castor	2089	Mar. 21, 1912

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Wight, H. E.	Cardston	1683	Mar. 28, 1911
Wright, Oscar H.	Warner	1693	Mar. 29, 1911
Wagar, Elmore C.	Bow Island	1710	Mar. 31, 1911
Wagar, George	Bow Island	1711	Mar. 31, 1911
Wilson, Charles B.	Olds	1730	Apr. 5, 1911
Wood, Thomas W. G.	Lethbridge	1794	Apr. 24, 1911
Weeks, George S.	Seven Persons	1795	Apr. 24, 1911
Woods, George	New Dayton	1842	Apr. 26, 1911
Woodrow, Duncan	Edmonton	1847	June 9, 1911
Wilbraham, George	Edmonton	1873	July 12, 1911
Williams, Thomas	Grand Prairie	1884	July 19, 1911
Wilson, Ernest	Langdon	1885	July 19, 1911
Walker, Jas H.	Gleichen	1905	Aug. 22, 1911
Wonson, Louis A.	Calgary	1940	Sept. 8, 1911
Wagar, Arnold	Millet	1958	Sept. 9, 1911
Wilson, Oscar L.	High River	1971	Oct. 20, 1911
Welsh, John	Vermilion	2012	Dec. 12, 1911
Williams, Ross D.	Winnifred	2017	Dec. 19, 1911
Wertz, Ran. W.	Lethbridge	2018	Dec. 19, 1911
Whalls, George	Calgary	2020	Dec. 23, 1911
Wharron, Frank T.	Calgary	1213	Apr. 7, 1910
Wharron, Frank T.	Calgary	2162	Apr. 19, 1912
Williams, Wm. D.	Vermilion	1508	Sept. 21, 1910
Williams, Wm. D.	Vermilion	2232	Apr. 29, 1912
Wallace, F. M.	Lethbridge	1878	July 13, 1911
Wallace, F. M.	Lethbridge	2067	Mar. 13, 1912
Wilson, Steven E.	Calgary	2044	Feb. 14, 1912
Wentz, Earl R.	Medicine Hat	2068	Mar. 13, 1912
Wark, Fred D.	Gladys	2114	Mar. 28, 1912
Whitehouse, Jas. E.	Strathmore	2135	Apr. 4, 1912
Willits, John T.	Clover Bar	2219	Apr. 29, 1912
Weber, Edwin	Didsbury	2261	May 3, 1912
Wesenberg, William	Ghost Pine Creek	2262	May 3, 1912
Wheatley, Edward A.	Leslieville	2265	May 15, 1912
Williams, John	Lille	2269	May 18, 1912
Watson, Isaac M.	Lethbridge	2270	May 18, 1912
Winters, Arthur J.	Bassano	2284	May 22, 1912
Wimer, William	Ferintosh	2295	May 29, 1912
Wilcox, Edward	Camrose	2298	June 10, 1912
Wilson, Aaron	Calgary	2304	June 11, 1912
Walker, Alex.	Calgary	2322	June 21, 1912
White, William L.	Edmonton	2336	July 16, 1912
Ward, William	Calgary	2349	July 18, 1912
Walker, John F.	Bassano	2350	July 18, 1912
Wright, Frank G.	Staffordville	2356	July 19, 1912
Ward, Walter Geo.	Lethbridge	2362	Aug. 14, 1912
Wismer, Henry F.	Nanton	2402	Oct. 19, 1912
Wyatt, Sidney	Calgary	2407	Oct. 19, 1912
Wright, Joseph	Calgary	2408	Oct. 19, 1912
Young, Arthur	Banff	*491	Mar. 14, 1904
Young, D. M.	Lethbridge	4	Sept. 16, 1905
Yeamans, Chas. A.	Edmonton	2294	May 29, 1912
Young, Jno. T.	Stavely	465	July 15, 1907
Young, Alvia L.	Markerville	643	Apr. 14, 1908
Young, David	Strathcona	2226	Sept. 29, 1912
Young, Peter	Calgary	959	Apr. 9, 1909
Young, Jas.	Edmonton	1355	Apr. 13, 1910
Young, Jas.	Gleichen	1531	Apr. 23, 1910
Yeomans, George M.	Brocket	1634	Mar. 15, 1911

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Steam Boilers Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Third Class—Continued			
Zimmerman, Arthur C.	Bawlf	1548	Oct. 7, 1910
Zuehlke, F. C.	Urquhart	*188	Dec. 18, 1901
Zimmerman, Otto	Red Lodge	*756	Mar. 24, 1905
Zachowski, John	Edison	1150	Sept. 25, 1909
Zille, Frank	Lille	2087	Mar. 18, 1912
Zorves, Andrew J.	Blairmore	2088	Mar. 18, 1912

*Indicates Certificate was granted by North-West Territories.

DEPARTMENT OF PUBLIC WORKS
TRACTION ENGINEERS' Final Certificates.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Arrison, Norman W.	Gleichen	73	Aug. 16, 1912
Andrews, John	Stewartwayn	1	May 13, 1912
Adler, Lee	Stirling	32	June 14, 1912
Arndt, Paul	Whitla	83	Sept. 17, 1912
Atkinson, Henry	Medicine Hat	84	Sept. 17, 1912
Blatchford, Arthur L.	Olds	56	July 30, 1912
Benning, Alonzo	Lethbridge	26	June 5, 1912
Bassett, Chas. C.	Cora Lynn	27	June 10, 1912
Burger, Samuel M.	Bentley	28	June 10, 1912
Bobier, Louis	Coaldale	65	Aug. 14, 1912
Brown, Frank	Spring Coulee	85	Sept. 17, 1912
Buchanan, Robt. Jas.	Welling	86	Sept. 17, 1912
Boyce, Samuel L.	Calgary	107	Sept. 19, 1912
Beebe, Roy A.	Cowley	122	Oct. 17, 1912
Bowman, Harry H.	High River	126	Oct. 19, 1912
Baker, Edwin E.	Glenview	127	Oct. 19, 1912
Blegan, John P.	Crossfield	131	Oct. 19, 1912
Cale, Arthur Wm.	Lethbridge	82	Sept. 9, 1912
Choate, Stewart	Trochu	2	May 13, 1912
Curtis, Albert G.	Cora Lynn	3	May 13, 1912
Cook, Manny. A.	Calgary	17	May 22, 1912
Cathcart, James	Edmonton	38	June 17, 1912
Christensen, Jacob	Standard	48	July 18, 1912
Coutts, Alex.	Warner	53	July 19, 1912
Church, Herbert Geo.	Winnifred	66	Aug. 14, 1912
Coldsnow, Alvah	Coutts	87	Sept. 17, 1912
Clark, Charles	Calgary	106	Sept. 19, 1912
Caskey, Oran A.	Caskey	115	Sept. 27, 1912
Shaffin, John D.	Arrowood	129	Oct. 19, 1912
Chippenden, Henry L.	Bassano	138	Dec. 18, 1912
Donnelly, Walter S.	Bow Island	33	June 14, 1912
Dimmer, Matt	Coaldale	67	Aug. 14, 1912
Dopp, Barnett	Seven Persons	88	Sept. 17, 1912
Danielson, Daniel T.	St. Kilda	89	Sept. 17, 1912
Derby, Bernie E.	Ft Saskatchewan	111	Sept. 20, 1912
Dalquist, August	Calmar	133	Nov. 8, 1912
Eggenberger, Emil W.	Coalbanks	4	May 13, 1912
Engle, Ralph N.	Bassano	31	June 11, 1912
Elliott, Walter E.	Calgary	130	Oct. 19, 1912
Fyrk, Gust.	Pendant D'Orilla	12	May 18, 1912
Flrth, Wilfred	Lethbridge	123	Oct. 17, 1912
Frederickson, D. O.	Calgary	134	Nov. 8, 1912
Green, John Hy.	Staunton	68	Aug. 14, 1912
Gray, Joseph O.	Grassy Lake	13	May 18, 1912
Grubert, Henry	Leduc	57	Aug. 12, 1912
Gow, Archibald	Athabasca Landing	40	June 28, 1912
Gilchrist, Lee	Hill Springs	90	Sept. 17, 1912
Graham, Fred O.	Claresholm	91	Sept. 17, 1912
Harwood, Gordon W.	Stettler	5	May 13, 1912
Hesse, William	Calgary	18	May 22, 1912
Hewer, Eber J.	Hairy Hill	58	Aug. 12, 1912
Haley, Edward Geo.	Wheat Centre	74	Aug. 20, 1912
Hantsman, Lewis J.	Carmangay	92	Sept. 17, 1912
Hall, William J.	Calgary	105	Sept. 19, 1912
Harmer, Edward	Edmonton	116	Sept. 27, 1912
Henderson, Harry	Okotoks	128	Oct. 19, 1912
Iverson, Louis O.	Bismarck	29	June 10, 1912

TRACTION ENGINEERS' Final Certificates.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Jerome, Earl	Noble	14	May 18, 1912
Johnson, John G.	Suffield	19	May 22, 1912
Johnson, Aug. K.	Strathcona	25	May 29, 1912
Jackson, Lionel A.	Calgary	75	Aug 20, 1912
Jamieson, Harry W.	Nanton	76	Aug. 20, 1912
Johannsen, Hy. G.	Bergen	113	Sept. 21, 1912
Johnston, Albert E.	Edmonton	117	Sept. 27, 1912
Johnson, Oscar F.	Strathmore	139	Dec. 18, 1912
Klaparezuk, Stephen	Mundare	121	Oct. 14, 1912
Krodel, John A.	Irvine	55	July 23, 1912
Koester, Clarence G.	Lost Lake	69	Aug. 14, 1912
Kelly, Robert	Calgary	77	Aug. 20, 1912
Kuhl, Edward	Calgary	20	May 22, 1912
Loomer, Charles S.	Endiang	6	May 13, 1912
Langer, Paul	Eckville	30	June 10, 1912
Lyon, Jay	Claresholm	35	June 14, 1912
Latta, Charles W.	Tofield	39	June 17, 1912
Lawin, Frank E.	Pine Creek	59	Aug. 12, 1912
Lawler, Joseph W.	Lethbridge	70	Aug. 14, 1912
Lefebvre, Adelard J.	Irvine	72	Aug. 14, 1912
Litke, Steve	Gleichen	78	Aug. 20, 1912
Lynn, John W.	Crossfield	101	Sept. 19, 1912
Lerbeckmo, Peter	Bardo	112	Sept. 20, 1912
Magill, Otis D.	Calgary	79	Aug. 20, 1912
Matti, Adolf	MacLeod	93	Sept. 17, 1912
Maki, Gust.	Sylvan Lake	135	Nov. 12, 1912
Mullane, Chris. D.	Lethbridge	137	Dec. 17, 1912
McCoy, Martin H.	Coaldale	15	May 18, 1912
McGhan, Lloyd Jas.	Clover Bar	60	Aug. 12, 1912
McNab, Duncan	Kipp	96	Sept. 17, 1912
McDowell, Grant S.	Vulcan	124	Oct. 17, 1912
Nelson, Ernest W.	Calgary	125	Oct. 19, 1912
Nemsgern, Nicholas	Claresholm	94	Sept. 17, 1912
Norris, Roy James	Lethbridge	95	Dec. 17, 1912
Ogden, Herman E.	Pincher City	34	June 14, 1912
Olson, Oscar T.	Hutton	49	July 18, 1912
Perin, Charles A.	Calgary	50	July 18, 1912
Pearson, Vernon	Lethbridge	54	July 19, 1912
Pennington, Wm.	Lethbridge	136	Nov. 13, 1912
Robertson, Donald	Medicine Hat	36	June 14, 1912
Rowlands, Hugh G.	Delroys	51	July 18, 1912
Rennie, James C.	Yetwood	71	Aug. 14, 1912
Rhoads, George	Calgary	80	Aug. 20, 1912
Rickey, Foster	Lethbridge	97	Sept. 17, 1912
Smith, Rowland	Castleyville	7	May 13, 1912
Scheerschmidt, Bernhardt ..	Stettler	8	May 13, 1912
Smith, Manley	Olds	11	May 15, 1912
Scott, William J.	Bassano	21	May 22, 1912
Stauffer, John L.	Round Hill	24	May 29, 1912
Scott, Allan O.	Kinsella	42	July 16, 1912
Stott, John J.	Hardisty	43	July 16, 1912
Sidet, Elmer	Jethson	52	July 18, 1912
Sandstrom, Axel	Calmar	61	Aug. 12, 1912
Schultz, Fred H.	Bruderheim	62	Aug. 12, 1912
Samue'son, Lorantz	Cummings	63	Aug. 12, 1912
Stewart, William J.	Hughenden	81	Aug. 22, 1912

TRACTION ENGINEERS' Final Certificates.—*Continued.*

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Straus, Fred J.	Stavely	98	Sept. 17, 1912
Scott, Robert T.	Cayley	108	Sept. 19, 1912
Stevenson, Ivie W.	Calgary	109	Sept. 19, 1912
Stewart, Martin O.	Calgary	110	Sept. 19, 1912
Smith, Aug. W. De'H.	Paddle River	114	Sept. 20, 1912
Snell, Edward	Bittern Lake	18	Sept. 27, 1912
Scheideman, John	Mewassin	120	Oct. 10, 1912
Tellesen, Alex.	Ingleton	9	May 13, 1912
Tupper, Roy O.	Entwistle	23	May 29, 1912
Thordarson, Chris.	Clover Bar	44	July 16, 1912
Thompson, Charles	Bow Island	99	Sept. 17, 1912
Underwood, Elmer A.	Gadsby	10	May 13, 1912
Utas, Chas.	Manfred	132	Nov. 7, 1912
Utas, Christian	Water Glen	64	Aug. 14, 1912
Valcour, Alga.	Rivlere Qui Barre	45	July 16, 1902
Van Horn, William	Gleichen	103	Sept. 19, 1912
Willsen, William	Many Berries	16	May 18, 1912
Watters, Chas. A.	Calgary	22	May 22, 1912
Weatherhead, Marsden	Lethbridge	37	June 14, 1912
Ward, Luman G.	Athabasca Landing ..	41	June 28, 1912
Whitney, John E.	Iola	47	July 17, 1912
Williamson, Charles W.	Claresholm	100	Sept. 17, 1912
Wismer, Henry F.	Nanton	102	Sept. 19, 1912
Wells, Edwin Newton	Cluny	104	Sept. 19, 1912
Wiltzen, Norman	Chipman	119	Sept. 27, 1912

FIREMEN'S Final Certificates.

NAME	ADDRESS	NO. OF CERT.	DATE OF ISSUE
Lee, Elling	Calgary	3	Sept. 19, 1912
Miller, John B.	Calgary	1	June 21, 1912
McCartney, Grant	Edmonton	4	Oct. 8, 1912
Willis, Percy W.	Calgary	2	June 21, 1912

EDMONTON, January 13, 1913.

REPORT OF CORRESPONDENCE BRANCH FOR YEAR 1912

With reference to the work of this branch for the year the following statement will give a fair idea.

In view of the fact that prior to 1912 this department included the municipal or local improvement and telephone branches, but, now being separate departments a fair comparison with past years cannot be made:

Number of letters received	51,774
Number of letters mailed	51,426
Total number of communications	<u>103,200</u>

Number of cash items received	2,546
Amount of cash received	\$166,000.05
Number of registered letters received	1,678
Number of registered letters mailed	7,297
Amount of postage used	\$1,411.25
Number of new files made and indexed	1,787

EDMONTON, January 17th, 1913.

JOHN STOCKS, ESQ.,
Deputy Minister of Public Works,
 Edmonton, Alta.

SIR,—As accountant of the Department of Public Works, I have the honour to submit herewith my annual report for the year ending December 31st, 1912.

During the year 1912 the work of this branch has been largely increased, the expenditure being about one-third heavier than in 1911, while the receipts of revenue of the department have increased three-fold. Below you will find reported in detail the work of the department for the year.

Amount provided for Capital Account Expenditure during 1912	\$2,367,058.20	
Amount provided for expenditure chargeable to income	450,000.00	
Amount provided for expenditure under special warrants	98,800.00	
		\$2,915,858.20
Amount provided for civil government expenditure		56,080.00
Total amount provided in connection with the Department of Public Works for the year 1912....		2,971,938.20
Monies collected during 1912 on account of Public Works Department, as detailed below and placed to the credit of General Revenue—		
Steam Boilers Branch	18,719.70	
Coal Mines Branch	3,030.00	
Surveys Branch:		
Grazing leases.....	\$ 372.00	
Approval and final fees in connection with town site plans	91,273.50	
Sundries	1,413.29	
		93,058.79
Monies received on account of sales of material, refunds, etc.	73,538.32	188,346.81
Monies collected by Public Works and placed to the credit of general revenue suspense account...	93,179.02	
Monies on hand in general revenue suspense account December 31st, 1912, as represented by cash book balance		30,389.35
Amount received from L.L.I. Districts and placed to the credit of trust account "A".....		115,210.47
Amount expended for work and cost of administration of trust account "A"		156,513.06
Credit Bank Balance on trust account "A" from 1911		58,334.32
Amount expended from general revenue during 1912.		
Income	481,165.79	
Capital	2,217,441.47	
Warrants	23,302.50	
		2,721,909.76
Amount expended in connection with civil government during 1912		51,877.38
Receipts	392,280.95	
Expenditure	2,930,300.20	
	\$3,322,581.15	\$3,322,581.15

Details of expenditure from all sources for the year are as follows:

Furnishing and maintenance of public buildings, \$131,951.36.
 Caretaking and maintenance of government house, \$4,340.63. Completing and furnishing new buildings throughout the province during the

year amounted to \$904,720.90. Inspection of public works in connection with the smaller works cost \$9,495.12, while the inspection of trunk roads and trunk bridges with the larger wooden bridges in the various constituencies amounted to \$9,099.04. Inspection of coal mines in connection with operation cost \$16,229.10, and the installation and equipment of the two rescue stations in connection with coal mines cost \$9,552.43. The administration of the steam boilers branch, inspections and examinations cost \$25,820.57. The installation of ferries and operation and upkeep for the year amounted to \$36,205.39. The provincial drainage schemes cost \$10,866.29. Repairs to bridges cost \$31,257.23. Construction of the smaller roads cost \$210,601.82. The construction of trunk roads and the bridges in connection with them amount to \$895,441.35. Wooden bridges throughout the province amounted to \$197,195.33. The cost of our surveyors and their parties in the field, with the amount paid for compensation for land procured for road allowances amounted to \$79,314.37, and the administration of this branch, including supervision of plans and the ordinary office expenses amounted to \$7,116.81. Furniture purchased for the parliament buildings cost \$12,501.56. The cost of finishing material purchased and worked up in the carpenter shop for the various provincial buildings was \$12,592.57. The improvement of the grounds around the Wetaskiwin court house cost \$270.35. Accidents to workmen engaged on the various provincial works and for other unforeseen expenditure amounting to \$7,147.76. The Normal school site at Camrose cost \$16,800.00, and the amount expended in connection with the visit of the Duke of Connaught was \$6,502.50. This amount covers the cost of entertaining and dressing the public buildings at the various points throughout the province where His Royal Highness was entertained. The total amount expended upon staff salaries from civil government for the year was \$44,317.48. Postage used in the department amounted to \$1,090.00. Telegrams, telephone messages cost \$1,022.81. Sundry expenditures, including printing, cost \$5,447.09, making a total expenditure under civil government of \$51,877.38.

The total amount expended from local improvement trust account "A" amounted to \$156,513.06. Of this amount the sum of \$32,801.03 was paid for salaries to the staff of this department, but of this latter amount educational trust account, reimbursed this account to the extent of \$4,878.02 for clerical work and for postage supplies. This account also refunded \$900.00.

Number of accounts examined and passed to the treasury department for payment during the year	\$14,022
Number of accounts passed for payment in connection with local improvement trust account "A" for work	\$1,515

Total number of accounts passed for payment for the year. . \$15,537

Number of cheques issued in connection with the payment of accounts L. I. districts during the year	\$4,389
Number of cheques issued in connection with general revenue suspense account for the year	\$ 294
	<u>\$4,683</u>

Besides the above expenditure there was handled through this office part of the cost of construction in connection with the addition to the Central Telephone Exchange in Calgary. For this purpose the

telephone department advanced us \$12,000.00 and in disbursing this we checked and passed for payment 21 payrolls and issued 306 cheques. Below you will find a statement of this expenditure.

Amount of advance.....	\$12,000.00	Amount expended	\$ 9,294.69
Interest on same	107.00	Unexpended balance re-	
		turned	2,705.31
		Interest paid to telephone	
		department	107.00
	<u>\$12,107.00</u>		<u>\$12,107.00</u>

There was also paid to Messrs. Scott and Fraser, of Frank, by cheque No. 283 from General Revenue Suspense Account, the sum of \$1,870.85, covering the provincial government's proportion of cost of moving 35 houses belonging to Canadian Coal Consolidated, Limited, from the danger zone near Frank.

Respectfully submitted,

HENRY K. HYDE,

Accountant of Public Works.